

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

155

62.71

LIBRARY
 RECEIVED
 FEB 5 1931 ★
 U.S. DEPARTMENT OF AGRICULTURE

OUR COMPLETE
 ANNUAL CATALOG
 "HIGHEST QUALITY"

SEEDS

BULBS · PLANTS · ROSES ·
 BIRDS · POULTRY · AND
 GARDEN · SUPPLIES -



Routledge
 SEED & FLORAL CO.

WEST SIDE STORE
 145-147 2ND ST.

PORTLAND - ORE.

EAST SIDE STORE
 GRAND AV. - COR. STARK

READ What WE Do and What YOU Should Do READ

FORWARDING CHARGES

The following rules apply to the states west of the Rocky Mountains, that is, OREGON, WASHINGTON, CALIFORNIA, IDAHO and MONTANA.

ALASKA and OTHER STATES.—Customers ordering from other states must add postage on all items other than Seeds by the pound or less and Bulbs and small plants (see rate table, page 1), if wanted by mail, otherwise shipment will be made by express or freight, transportation charges collect.

By Mail or Parcel Post

On Cash Orders we will at prices printed in this catalog send by prepaid parcel post all Seeds in packets, ounces or single pounds, anywhere in the United States.

Small Plants (not potted), Bulbs and Roots are postpaid, unless otherwise stated.

SEEDS IN BULK.—When you order Seeds in quantity above 1 lb., add postage, unless otherwise stated. (See parcel post rates, page 1.)

TOOLS, SUPPLIES, FOODS, REMEDIES, ETC.—On this class of goods we have marked the

parcel post weight, including packing (PP. Wgt.), so that you can add postage to catalog prices if you want them by parcel post. PP. Wgt. does not mean postpaid.

SMALL FLOWERING SHRUBS, SMALL FRUIT, BERRY and ORNAMENTAL SHRUBS and PLANTS, CLIMBING VINES and 2-YEAR-OLD ROSE BUSHES can be sent by parcel post if necessary, but be sure you send extra money for packing and postage. Postage and packing charges will be specified on the different pages.

NOT MAILABLE.—Plants in pots, large branching Shrubs, Evergreens, Trees and Shrubs of all kinds, that must be balled in earth. Fruit and Shade Trees cannot be sent by Parcel Post. Neither can Insecticides that are poisonous, Flower Pots, Jardinieres, Bird Cages, or Non-Poisonous Liquids in larger than 1-pint cans.

By Freight or Express

WE DO NOT at catalog prices pay freight or express charges on any stock we offer, unless so stated; therefore, take note of the following paragraphs:

ORDER EARLY.—We aim to execute all orders as soon as received, but during the rush season, March and April, short delays may occur, which, however, can be overcome by our patrons anticipating their wants and ordering and taking delivery of their requirements early.

CORRESPONDENCE.—We try to give prompt attention to all proper letters of inquiry, etc., but ask, as a favor, that all questions be stated clearly and briefly, and not on order sheets.

OUR TERMS ARE STRICTLY CASH.—NO C. O. D. SHIPMENTS.—The proper remittance must in all cases accompany the order. Send money by bank draft, postoffice or express money order. Personal checks if O. K., also postage stamps for small amounts. We will not be responsible for stamps or coin sent in unregistered letters.

LARGE ORDERS.—Any gardener, institution or individual wishing seeds, plants, trees or supplies in large quantities is requested to mail a list of what is wanted, stating grade, size or amount, and we will promptly return it with our very lowest prices. A letter of inquiry may save you dollars if you want to buy in QUANTITY, or some PARTICULAR STOCKS.

PREPAY STATIONS.—When you send in orders to go by freight or express be sure you send extra money to pay the transportation charges if your station is a prepay point, which is always the case where there is no regular agent. If you send more than enough, we will refund it as soon as we get the prepay bill. If not enough, we will write for the balance and expect you to remit promptly.

SEASONABLE STOCKS.—Many customers order plants and bulbs out of season—that is, before we get stocks in or perhaps too late in the spring. Rather than delay the balance of your order, we will send what is seasonable at once and defer the balance until proper planting season unless otherwise instructed.

REPORTS—GOOD OR BAD.—Will you help us to attain greater success by writing and telling us how your Seeds and Supplies reach you, how they grow and how you like them? We will certainly appreciate it. Your criticisms, if you have any, as well as your praises, are desired.

MISTAKES.—These will happen occasionally, in spite of all care. Write us at once, with copy of original order, if possible, and mistakes will be promptly rectified.

NOTE.—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.: We give no warranty, expressed or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, nursery stock, roots or plants sent out and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are to be returned at once.

ROUTLEDGE SEED & FLORAL CO., Inc.

1931 — OUR 22ND ANNUAL CATALOG — 1931

A Truthful, Reliable Western Catalog for Western Buyers

Greetings to Our Customers and Friends:

Portland, Oregon, January 1, 1931.

On this New Year's Day we extend to all our customers and friends the "season's greetings." We wish you a very happy, prosperous and successful new year.

We have re-written and revised this catalog and made it right up to date. Some stocks have been discarded and others of increased value added.

We have made prices very low, although increased costs and some short crops really do not warrant it, but we'll hope to gain by increased business.

Remember, our motto is "Quality First," then prices as low as we can make them. We are catering to the planters, gardeners and poultry and pet stock keepers that appreciate "Highest Quality" and good service. We are in close touch with the world's best markets and know that our "prices" and "quality" are right. Thousands of our customers testify to this. You will find a few reports scattered throughout this catalog. These unsolicited reports are encouraging and our rapidly increasing business leads us to believe we are supplying satisfactory stocks and giving efficient service.

We certainly appreciate the support given us and thank you sincerely for past orders, and hope that we will have the pleasure of serving you again this year.

Telephone AT. 0103—EA.6121

Routledge Seed & Floral Co., Inc.

NEW EAST SIDE STORE AND WAREHOUSE, Grand Avenue, corner East Stark.

MAIN OFFICE, MAIL ORDER, RECEIVING DEPT., Grand Ave., corner East Stark.

WEST SIDE STORE, 145-147 Second Street, between Morrison and Alder.

U. S. PARCEL POST RATES AND REGULATIONS

BY PARCEL POST.—We do a direct mail order business with our customers. This enables us to give you direct and personal attention, quick service and lower prices.

Size and Weight of Parcel Post Packages

Packages cannot be sent that measure over 84 inches in length and girth combined. The weight limit for the local, first, second and third zones is 70 pounds. The weight limit for the third to eighth zones is 50 pounds, except as follows:

ALASKA, MEXICO, CUBA, HAWAII, PANAMA and the PHILIPPINES take the 8th zone rate with a WEIGHT LIMIT OF 20 LBS. Note.—Postage must be added in lb. lots or over.

CANADA postage rate is 14c for every pound or fraction thereof with a WEIGHT LIMIT OF 15 LBS. ADD LB. POSTAGE IN LB. LOTS OR FRACTIONS THEREOF.

Zones

First and second zones	50 to
Third zone	150 to
Fourth zone	300 to
Fifth zone	600 to
Sixth zone	1000 to
Seventh zone	1400 to
Eighth zone	all over

150 miles, first lb.	7c and each additional lb. or fraction	1c
300 miles, first lb.	8c and each additional lb. or fraction	2c
600 miles, first lb.	9c and each additional lb. or fraction	4c
1000 miles, first lb.	18c and each additional lb. or fraction	6c
1400 miles, first lb.	11c and each additional lb. or fraction	8c
1800 miles, first lb.	13c and each additional lb. or fraction	10c
1800 miles, first lb.	14c and each additional lb. or fraction	12c

Postage Rates

ALL MISCELLANEOUS MERCHANDISE offered in this catalog THAT CAN BE SENT BY PARCEL POST is marked P. P. and the PACKED WEIGHT is given so that extra money for POSTAGE can be remitted, according to the table above. OTHERWISE we will send by freight or express.

INDEX TO CONTENTS

Note.—B—Bulbs. P—Plants. R—Roots. F—Flowers

Page	Page	Page	Page
A	A	B	B
Abelia 83	Antirrhinum 38, P 59-60	Baby Breath (See	Begonias ....P 56-59-74
Acuba 83	Apples 80	Gypsophila) ....44-62	Bellis .....F 40. P 61
Acroclinum 38	Apricots 80	Bachelor Button	Bell Flower (See
Afi-Tox 88	Aquariums 111	(See Centaurea) F 41	Campanula) 40
Ageratum .....38, P 60	Aquilegia .....F 40, P 61	Balloon Vine 40	Birds, Seeds, Foods
Alfalfa 33	Arabis .....F 38, P 61	Balm 29	& Supplies...99 to 103
Aloysia .....P 56	Arsenate of Lead .. 88	Barberry 82	Bignonia 79
All in One Dust... 89	Arbovitae 83	Balsam 40	Bittersweet (See
Almond .....80-82	Artichoke .....S 4, R 35	Barley 36	Celastrus) .....P 79
Alyssum .....38 P 60, 61	Artemista .....P 61	Barker Garden	B'ackberries 80
Amaranthus 33	Asparagus .....F 38	Tool 92	Black Leaf "40" 88
Ameria .....P 61	S 4—P 56 R 81	Bamboo Leaf	B'eeding Heart (see
Anemone ....F 38, P 61	Asters .....30, P 61-60	Broom 92	Dicentra) 67
Anise 29	Aubretia .....38, P 61	Basil 29	Blue Stone .....109
Ant Killer 88	Azalea .....82-83	Beans .....4-5-6, F 40	Bone Meal 30
Antrol Ant Killer... 88		Beet .....7-8	Bone Mills 96

INDEX TO CONTENTS — Continued

Note.—B—Bulbs. P—Plants. R—Roots. F—Flowers

[illegible]

Note.—B—Bulbs. P—Plants. R—Roots. F—Flowers

Our Fall Catalog of Flowering Bulbs is issued about September 1 each season. If you would like a copy, make your request at any time and we will put your name on the mailing list for catalog in season.

ASPARAGUS

CULTURE.—Plant roots in well drained soil about two feet apart in the row and five to six feet between rows for field culture; much closer for home gardens. The seed is of slow germination and should be planted early in the season.

MARY WASHINGTON.—The strain we offer has been produced from seed of the most uniform rust-resistant, highest yielding, largest in size and quickest-growing plants. A very profitable variety.

Pkt. 10c; oz. 30c; 4 oz. 90c; lb. \$2.50

ARTICHOKE

LARGE GREEN GLOBE.—The well-known French vegetable; the undeveloped flower heads, when properly prepared, make a most delicious dish.

Pkt. 15c; oz. \$1.25

White Jerusalem.—Tubers grown for stock. See page 42.

ASPARAGUS ROOTS. You can save two or three years' time by buying Asparagus Roots. For prices, see Vegetable Roots, page 81.

GARDEN BEANS

DWARF OR BUSH GREEN PODDED KINDS

PRICES.—Pkt. 10c; ½-lb. 20c; lb. 35c, postpaid; 10 lbs. \$2.50, postage extra.

STRINGLESS GREEN POD

This famous Bean is unequalled as a first-early; also for main crop.

It combines unusual hardness, extreme earliness, and wonderful productiveness with handsome appearance and finest quality of pods.

By repeated plantings pods may be had in constant succession from spring until cut off by heavy frosts in the fall. The pods are of the finest quality, of a rich green, very round and slightly curved, medium long, solid, meaty and plump. The pods are tender, brittle, and of finest flavor, always entirely stringless even when fully grown.

STRINGLESS REFUGEE

An improved stringless strain. Very hardy and extremely productive. Pods round and straight, tender, brittle, absolutely stringless and of finest quality; medium early. Unsurpassed for picking or canning. Second early.

DWARF HORTICULTURAL

The best dwarf sort for green shell beans. Plants very productive, pods broad and thick, with splashes of bright red on a yellowish ground. They become fit as green shelled beans early; are large, easily shelled, large and fine quality.



DWARF OR BUSH LIMA BURPEE'S IMPROVED BUSH LIMA.

Best of the Bush Lima type. Very large, broad pods, excellent flavored beans, borne on large, vigorous plants. Extremely prolific. Pods contain from four to six very large beans of greenish-white color. See prices above.

Market and Truck Gardeners should write us for special prices and state quality and kinds wanted. We'll save you money and you will get "Higher Quality" Seeds.

BEANS —Continued**DWARF OR BUSH — YELLOW PODDED**

Prices.—Pkt. 10c; ½-lb. 20c; lb. 35c postpaid; 10 lbs. \$2.50, postage extra.

PENCIL POD BLACK WAX

Early and Stringless

A prolific cropper, superlative quality, handsome yellow pods 6 to 7 inches in length, fleshy but almost round, very meaty and sweet and perfectly stringless. Plant is free branching, but perfectly sturdy and upright. Valuable for its productiveness and disease-resisting qualities.

IMPROVED GOLDEN WAX

Medium early, heavy cropper, vine vigorous. May be sown early or late with the assurance of a good crop. Pods are golden yellow, fleshy and solid, brittle, waxy texture and have an exceptionally rich, buttery flavor.

NEW BRITTLE WAX

Extremely early, heavy cropper. The handsome pods, are nearly straight, long, round, fleshy, tender, "brittle" and entirely stringless at all stages of growth. Quality unsurpassed. Seed almost white, showing only a small dark dot at the eye.

SURECROP STRINGLESS WAX

Pods long, straight yellow that are well rounded, very meaty and solid. Rich and mild in flavor and entirely stringless.

WARDWELL'S KIDNEY WAX

A popular and well-known variety; pods long, golden-yellow, brittle and stringless.

DAVIS KIDNEY WAX

The pods are long and straight, light cream, excellent quality, good shippers. Seeds white.



New Brittle Wax

Commercial or Dry Table Beans

The stocks we offer are of known varieties, acclimated and hand-picked and grown especially for seed—by far the safest, best and most profitable in the end.

All Bean Prices Postpaid, except 10-lb. prices. Write for low 100-lb. prices.

IMPROVED TREE BEAN

Early, Wonderful, Productive

The dry bean is small, white, plump and almost round. Cooking and eating qualities are unsurpassed. Matures a week earlier than Lady Washington and is very productive. Our stock of this particular strain is rather limited, so order early.

Lady Washington.—A great improvement over the old "White Navy," as it is much earlier; especially adapted to Western conditions.

Castor Bean.—Used for medicinal purposes and by some claimed to keep moles away. Ornamental foliage, 4 ft.

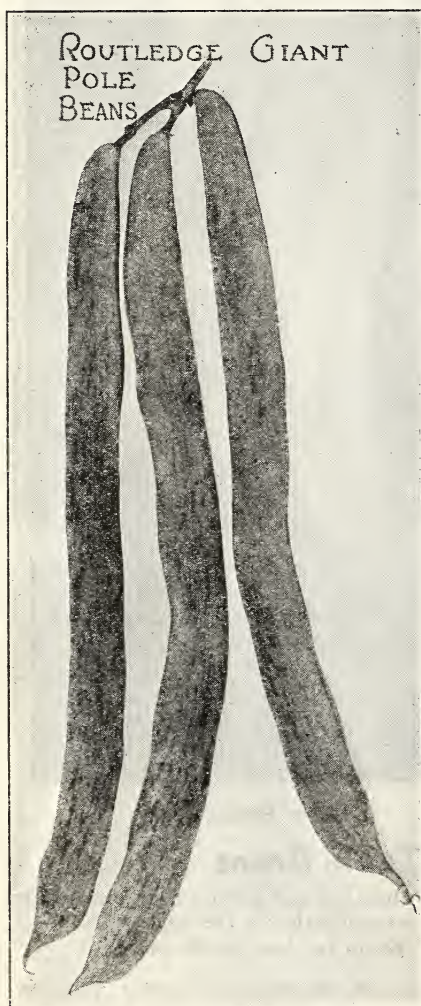
Large pkt. 20c; lb. \$1.00

CLIMBING POLE BEANS — Continued

Bean Prices.—Pkt. 10c; ½-lb. 20c; lb. 35c, postpaid; 10 lbs. \$3.00, postage extra, unless otherwise priced:

Routledge Giant Pole Bean

If you have not grown this bean, by all means do so this season. It is a quick grower, quite early and produces the **MOST WONDERFUL LONG, PLUMP, MEATY PODS** that are **TENDER, BRITTLE** and of **DELICIOUS MILD FLAVOR** when cooked.



Above pods about one-third natural size of our Giant when full grown

The mammoth 10 to 12-inch pods of The **ROUTLEDGE GIANT** picked in their prime are **ENTIRELY STRINGLESS**. The **QUALITY IS SUPERB** for canning or used fresh as a stringless "snap" bean. As a **SALAD BEAN** whole or sliced, and served with dressing it is **DELICIOUS**. The pale green pods are lightly penciled with carmine which disappears when cooked. See illustration, one-third natural size. Large pkt. 15c; ½-lb. 30c; lb. 50c.

Washington, April 12.

Routledge Seed & Floral Co.

Gentlemen: Please send me one package of Routledge Giant Pole Beans. They are the most wonderful bean I have ever seen grown.

MRS. W. L. WAGNER.

Oregon, February 16.

Routledge Seed & Floral Co.

Gentlemen: Enclosed find 60 cents, for which please send me Routledge Giant Pole bean seeds. There never was nor never will be a better bean. I don't see how you did it but, thank heavens, you did.

C. J. RASMUSSEN.

Improved Kentucky Wonder (Asparagus)

The most popular variety; (often sold as asparagus). Pods green, very long, round and perfectly stringless. Enormously productive and early, remaining in "fit" condition a long time. Unsurpassed for the table, being very tender and of delicious flavor.

Kentucky Wonder Wax

The best wax podded pole bean; pods are very fleshy and stringless and of excellent quality. The pods are quite long, handsome light yellow.

Horticultural Pole

Speckled Cranberry or Wren's Egg.—Vines vigorous. Pods rather short, broad, green streaked with bright red. Beans are round, splashed and spotted with red. Of fine quality, either as a green shelled bean or for winter use.

Scarlet Runner

Grown extensively for ornamental purposes, as flowers are a most brilliant scarlet; beans are broad and flat.

Oregon Pole Lima

The best lima bean for the Northwest. Strong, vigorous grower; large, broad pods freely produced. The large, plump white beans are of delicious quality, shelled or dry.

FOR THE HOME GARDEN WHERE SPACE IS LIMITED POLE BEANS ARE MOST DESIRABLE AS THEY ARE MORE PRODUCTIVE AND REQUIRE LESS GROUND SPACE.

Stock Beets or Mangels

Excellent winter feed for horses, cattle, sheep, hogs and chickens. When fed in combination with grain or mash they are worth almost as much, pound for pound, as the grain. This statement may seem absurd, but experience has proved that Mangels so aid digestion and assimilation by keeping the animals in a healthy condition, that they increase the feeding value of other feeds consumed, besides the nutrients the roots contain. Every farmer and poultryman should raise Mangels.

Giant Yellow Eckendorf

A new mangel of great merit. The roots are smooth, long and cylindrical in shape, very heavy, weighing up to 15 and 20 pounds each; grow two-thirds above the ground. The flesh is firm, crisp and solid, white in color and of high feeding value. (See cut No. 3.)

Giant Half Sugar Mangel

Yields as much per acre as the best Mangels, and twice as much per acre (bulk or roots), as the rich sugar beet. Roots grow very large above the ground. Smooth, creamy white in color and very nutritious. Easily pulled. (See illustration No. 1.)

Golden Tankard

An enormous yielder of weight per acre, and at the same time very nutritious; flesh deep-yellow, of fine shape, growing largely above ground, thus being easily harvested. (Same shape as cut No. 3.)

Danish Sludstrup

An improved variety, considered one of the best. Awarded first class certificate. Color, reddish yellow, and of a distinct type. It is very hardy, grows well above ground; is easily pulled; very nutritious. (See Cut No. 2.)

Mammoth Long Red

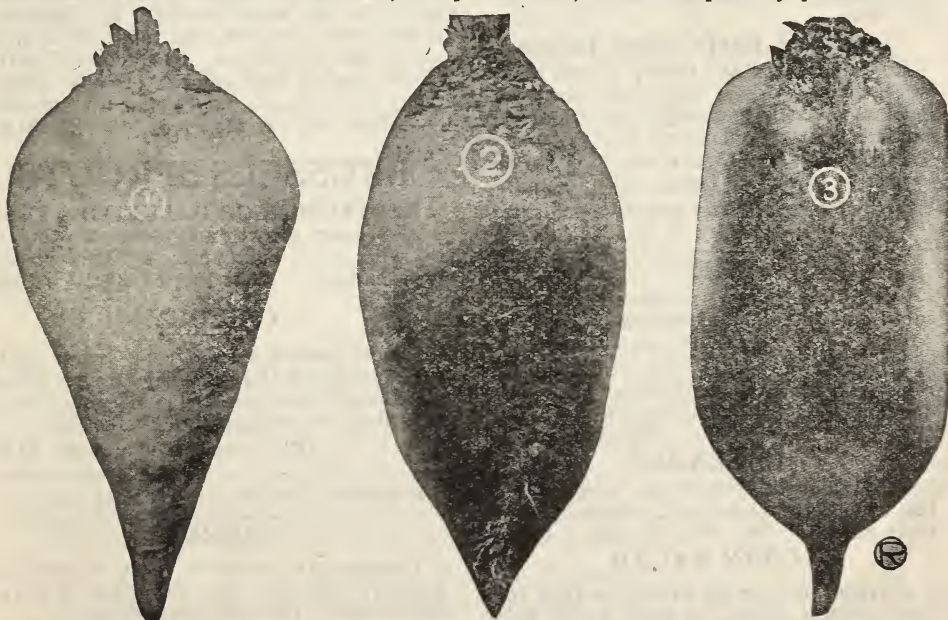
Very popular and much used. A large and heavy cropper. Dark red skin, with whitish flesh; grows one-half or more above the ground; roots quite regular; attain a very large size. (Same shape as No. 2.)

SUGAR BEETS

FRENCH WHITE SUGAR.—The sugar beet most generally grown; most popular variety as it produces a large crop and is rich in sugar value. The young beets are fine for table use.

PRICES: Your choice of above varieties: Pkt. 10c; oz. 15c; 4 oz. 25c; lb. 55c

NOTE.—In 5-lb. or 10-lb. lots, 10c per lb. less; write for quantity prices.



(1) Giant Half Sugar

(2) Danish Sludstrup

(3) Giant Yellow Eckendorf

Write for quantity prices. For amount of seed per acre, any kind, see "Seed Table," inside back cover.

TABLE BEETS

Routledge Favorite

The best of all for home gardens. A re-selected, improved strain of Crimson Globe. Perfectly globe shaped, with a single tap root, and of the richest color of any of the beets. It is medium early, tops are small and dark in color, a splendid keeper, remaining in prime condition a long time. The flesh is exceedingly tender, fine and sweet and is unequalled for table use. Home and market gardeners will find our Favorite very profitable, attractive and of highest quality.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$1.50.

Crosby's Egyptian

Popular variety for home gardens and market. Extremely early and reaches table size quickly. Tops dark green, beets very smooth, fine color, globeshape, slightly flattened. Flesh rich red, fine grained, sweet and tender.

Pkt. 10c; oz. 20c; 4 oz. 35c; lb. 85c.

Detroit Dark Red

Excellent variety, nearly globular, dark skin and rich red flesh, maturing early and keeping crisp and tender for a long time. Very popular with market gardeners and canneries. Pkt. 10c; oz. 20c; 4 oz. 40c; lb. 90c.

Improved Early Blood Turnip

Roots dark red and nearly round, slightly flattened. Flesh deep red zoned with lighter shade; sweet, crisp and tender. An excellent sort for summer and fall use.

Pkt. 10c; oz. 15c; 4 oz. 25c; lb. 85c.

HALF LONG BLOOD.—Quite popular. Excellent in shape and quality: yields well.

Pkt. 10c; oz. 15c; 4 oz. 25c; lb. 85c.

CRESS

Curled or Pepper Grass.—Used as a salad and fine for garnishing.

Pkt. 10c; oz. 20c; 4 oz. 40c

True Water.—Only thrives when its roots and stems are submerged in water and delicious for small salads.

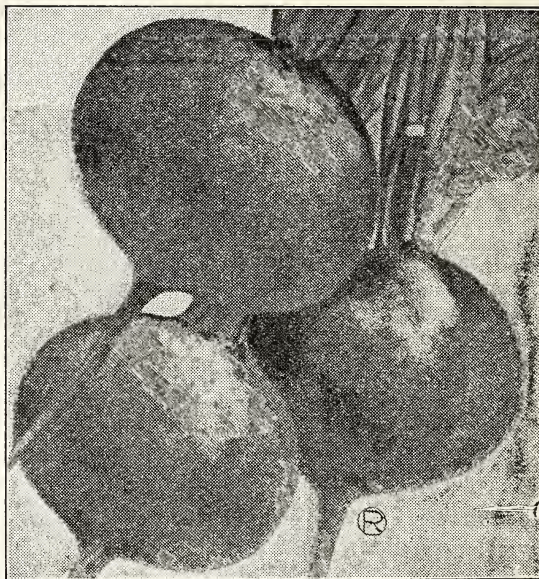
Pkt. 10c; oz. 60c

COLLARDS

True Georgia.—Used as "greens." As the leaves are pulled off, others grow in their places. Pkt. 10c; oz. 20c; 4 oz. 65c

CORN SALAD

Fetticus or Lamb's Lettuce.—This is a hardy winter salad, the small leaves being served like lettuce. Pkt. 10c; oz. 30c



Routledge Favorite

SWISS CHARD, Or Spinach Beet

GIANT LUCULLUS.—The leaves of this vegetable are used for "greens" and prepared in the same manner as Spinach; sometimes, however, the mid-rib is prepared like asparagus. Seed planted early in the spring will quickly produce plants from which leaves may be cut all summer.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.00

BRUSSELS SPROUTS

PERFECTION OR DALKEITH.—Plants are of dwarf growth and stems are thickly set with large, solid sprouts. This variety is satisfactory. Pkt. 10c; oz. 30c; 4 oz. 85c

CHICORY

Large Rooted or Coffee.—Grown quite extensively for the large, thick roots, which are sliced, dried, roasted and ground as a substitute or adulteration for coffee.

Pkt. 10c; oz. 40c; 4 oz. \$1.25

CHIVES—See Vegetable Roots, page 29.

CHERVIL

Curled.—An aromatic herb, resembling parsley, and used for flavoring in soups and salads. Fine for garnishing.

Pkt. 10c; oz. 30c; 4 oz. \$1.00

OUR GARDEN CULTIVATORS are priced very low and will save you much work in the garden. See page 92.

"Highest Quality" CAULIFLOWER "Plants, Pg. 29"**ROUTLEDGE
"SNOW WHITE"****The Finest Cauliflower
Grown**

In competition with all other strains, this cauliflower has won the approval of critical gardeners, being early and also the best main crop sort grown. It is suitable not only for early use, but is superior for late planting. The heads are large, compact, firm and solid. No other variety surpasses it in purity of color being clear snow white. of high quality. Very resisting against unfavorable seasons and dry weather, the foliage giving a splendid protection.

Pkt. 20c; $\frac{1}{4}$ oz. 90c;
 $\frac{1}{2}$ -oz. \$1.60; oz. \$3.00.



Routledge Snow White.—Leaves cut out to show the head

EARLY SNOWBALL

We have an extra selected stock of this sort, and recommend it with the greatest confidence. Its earliness, compact habit, large-sized heads and snow-white color recommend it to every grower as a variety of especial merit.

Pkt. 15c; $\frac{1}{4}$ -oz. 60c; oz \$2.00; 4 oz. \$6.50

VEITCH'S AUTUMN GIANT (Italian

Type).—A hardy, tall-growing cauliflower, making extra large, white heads, which are well protected by the leaves. Remarkably vigorous and thrifty. Excellent for late crop.

Pkt. 10c; $\frac{1}{2}$ -oz. 60c; oz. \$1; 4 oz. \$3.25

BROCCOLI — Winter Cauliflower

Forms a head like a cauliflower, but is much hardier; stands wet and cold better. For fall use sow White French in March or April and set plants early. Plant St. Valentine seed in May or June and set plants out in June or July for cutting the following spring.

ROUTLEDGE "H. Q."

(Highest Quality)

ST. VALENTINE

In this seed we are offering our customers a very select, high-grade strain of the well-known St. Valentine. Seed saved from only the most perfect heads, those showing the most desirable leaf formation for the protection of the developing head and those of large size and perfect compact heads, free from small center-head leaflets. Our "H. Q." seed will produce the highest per cent of perfect heads and bring the "top" price.

The H. Q. St. Valentine seed we are offering this year is from just such perfect heads. It comes from the originators of this now famous variety.

Pkt. 15c; $\frac{1}{4}$ -oz. 40c; oz. \$1.25; 4 oz. \$4.25; lb. \$15.00.

White French Broccoli

A select early strain, producing fine white heads of large size and excellent quality in the fall.

Pkt. 10c; oz. 90c; 4 oz. \$3.00

"SEMESAN."—According to "tests" it pays to use "Semesan" on Cauliflower seed. See page 32.

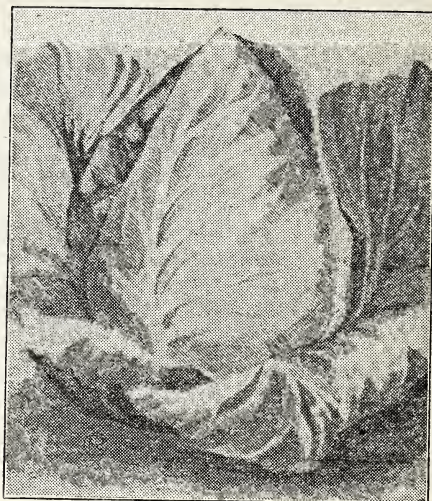
"Highest Quality"**CABBAGE****True and Pure**

Our Cabbage Seeds come from the world's best growers—pure, true strains, of highest quality. One ounce will produce over 3,000 plants. One-quarter pound of seed will produce plants sufficient for one acre.

Early Jersey Wakefield

The earliest and hardiest heading of first early cabbages. Its exceeding hardness not only resist cold, but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results. Our stock is grown and selected with the greatest care; there is none better. Head conical, very compact, solid and of excellent quality.

Pkt. 10c; oz. 30c; 4 oz. \$1.00; lb. \$3.50

**Early Jersey Wakefield****Golden Acre**

It is claimed to be the earliest round headed cabbage and that it matures before Early Jersey Wakefield. The heads are round and firm with few outer leaves and average about four pounds. Can be planted closer than most. Excellent for the home garden; of highest quality.

Pkt. 10c; oz. 40c; 4 oz. \$1.50; lb. \$4.00

Yachts, Ore., Dec. 2, 1929.

Routledge Seed & Floral Co.

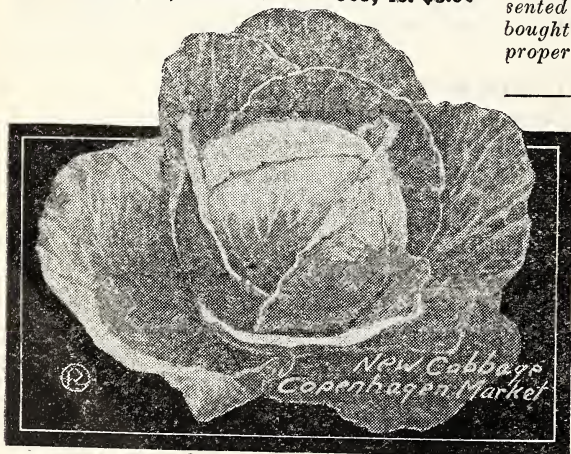
Dear Sirs: I have used your seeds since 1913 and never have found them misrepresented in any way. Everything I ever bought of you turned out fine when given proper care.

LIDA C. WHAITE.

Golden Acre**Large (Oregon) Wakefield**

A large strain of Jersey Wakefield; heads nearly double in size, not so pointed. Excellent quality; second early.

Pkt. 10c; oz. 30c; 4 oz. 90c; lb. \$3.00

**Copenhagen Market**

The earliest large round-headed cabbage yet introduced. Sure to head and every head perfect. The plant is of vigorous habit but compact, with short stem and few outer leaves. Heads round, very solid and of exceptionally good quality. Copenhagen Market one of our most valuable varieties. We recommend it.

Pkt. 10c; oz. 35c; 4 oz. \$1.00; lb. \$3.50.

CABBAGE PLANTS.—During planting season we aim to have on hand large quantities of Cabbage and Vegetable Plants. (See page 29.)

CABBAGE — Continued — Late Varieties

Premium Late Flat Dutch

A low growing variety; heads large, bluish-green; round, solid, broad and flat on top; an excellent fall and winter variety and a good keeper. It is a sure header. Our stock has been grown from carefully selected heads. High quality, sweet and mild.

Pkt. 10c; oz. 35c; 4 oz. \$1.25; lb. \$3.75.

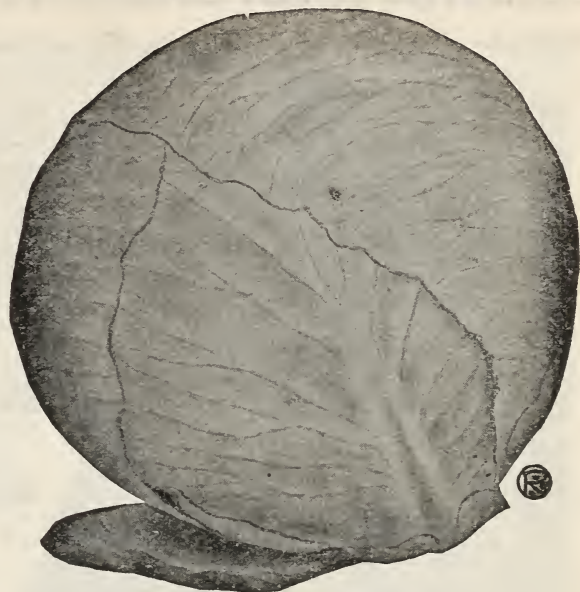
Perfection Drumhead Savoy Cabbage

A variety that is much prized for its exceptionally fine flavor, more tender and sweeter. Heads large size and quite compact, with densely and uniformly crimped or curly outer leaves. Pkt. 10c; oz. 35c; 4 oz. \$1.25; lb. \$3.75.

Mammoth Rock Red

Best hard-headed, red variety; large heads, globular, and deep red. Tender and excellent quality.

Pkt. 10c; oz. 35c; 4 oz. \$1.25.



Danish Ball Head Cabbage

Danish Round Head

An earlier short-stemmed strain of the famous Danish Ball Head

Large and very solid round head on short stems, having the same keeping quality as the original strain of Danish Ball Head, so widely known. It is 10 days to 2 weeks earlier and is a wonderful yielder. It is especially valuable for high, dry land.

Pkt. 10c; oz. 35c; 4 oz. \$1.25; lb. \$3.75

Danish Ball Head — True, Highest Quality Seed

Most remarkable late cabbage yet produced, heads large and solid—fine grained and tender. Entirely distinct. Exceedingly hardy in resisting cold and wet weather. We offer true, pure seed of the very finest medium tall or "middle-stem" type. Famous for its hard-heading qualities, which at once recommends it as highly valuable for shipping. The magnificent heads are round in form and keep in excellent condition during winter, coming out in the spring perfectly solid.

Pkt. 10c; oz. 35c; 4 oz. \$1.25; lb. \$3.75



Wong Bok Salad Cabbage

Aberdeen, Wash., May 5, 1930.

Dear Sirs: Enclosed you will find money order for which please send enclosed order.

I might add that we think there is nothing like the Wong Bok for greens, and it's far superior to anything we have ever used.

MRS. ROY L. JOHNSON.

Wong Bok

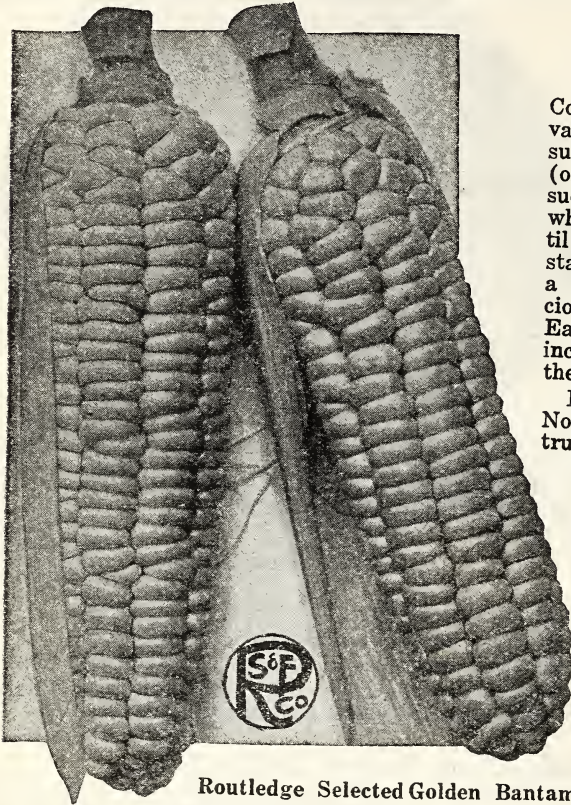
Chinese Cabbage

Wong Bok produces a beautiful, crisp, blanched tall head. As a salad it rivals the finest lettuce. Delicious sliced as cold slaw. Boiled or steamed it makes delightful greens, more like sprouts. Don't plant too early, grow it as a fall vegetable.

Plant like late cabbage, about 15 inches apart, in rows. Does its best in cool, moist weather. Pkt. 10c; oz. 35c; 4 oz. \$1.25

SELECTED SWEET CORN — NORTHERN GROWN

PRICES:—Pkt. 10c; ½-lb. 20c; lb. 35c prepaid; 10 lbs. \$2.50, postage extra



Routledge Selected Golden Bantam

Routledge Selected Golden Bantam

Without exception Golden Bantam Corn is the richest in flavor of all varieties. It matures quickly and is suitable not only for early planting (on account of its hardiness), but a succession of sowings may be made which will give continuous supply until fall. When picked at the proper stage of its growth the kernels are a rich, creamy-yellow, tender, delicious, and unsurpassed in quality. Ears 8 to 10-rowed, and about six inches long—just the ideal size for the table.

Remember, our selected strain is Northern grown, better flavored and truer than most seed offered.

Golden Early Market

A recent introduction. On account of its extreme earliness (almost two weeks ahead of Golden Bantam), it brings fancy prices. The ears are large and quality equal or superior to any other of the real early white varieties. A tall, strong grower. Very desirable on account of its earliness.

DUST SEED CORN with SEM-ESAN JR. (See page 32.)

Routledge Superb

We do not hesitate to recommend this new sweet corn to our customers. Its earliness, hardiness, size and quality make it of real merit to the Western planters. It is extremely early, almost two weeks ahead of Golden Bantam. The large ears are always well filled with 12 to 14 rows of large, plump, white, sweet grains. Of handsome appearance and excellent quality.

EARLY EVERGREEN

This fine variety is 10 to 12 days earlier than Stowell's Evergreen and yields large, handsome 10 to 12-rowed ears.

POP CORN

White Rice.—Most popular and profitable kind; short ears, white, pointed kernels.

Large pkt. 10c; lb. 35c

Golden Giant

Large golden yellow, of real merit. An excellent variety to follow Golden Bantam, about 10 days later. The ears are 7 to 9 inches in length with 12 to 14 rows of large deep kernels. Excellent quality, sweet and delicious.

GOLDEN WEST

Rich, creamy yellow and of excellent quality.

GOLDEN EVERGREEN

Large ears of deep, rich, golden-yellow kernels, very tender and of delicious quality.

STOWELL'S EVERGREEN

A good main crop or late sort. Remains longer in green state than any other. Very large ears, with deep grains and remarkably sweet.

Routledge Seed & Floral Co.

Dear Sirs: I received the Routledge Superb sweet corn seed o. k. and it is the best sweet corn I ever raised. My mother sent me seed from Oregon and I have raised it three years and get roasting ears two weeks before the Early June or Golden Bantam is ready. Thanks very much.

Bowbells, N. D.,

MARY L. COREY.

CAREFULLY GROWN
RE-SELECTED STOCK

CUCUMBERS

USE ALL-IN-ONE
FOR CUCUMBER BUGS



Routledge Highest Quality Cucumber

Routledge Highest Quality

It is the earliest white spine cucumber suitable for table, market or shipping purposes, under all conditions of culture, whether under glass or in the open ground.

Color a very deep green, which it retains during a long period, while in symmetry of form it is so regular, so uniform, as to create comment wherever seen.

The quality is unsurpassed, being exceedingly brittle and crisp. The flavor is delicate and entirely devoid of the bitter taste so frequently noticed in other varieties.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$1.75

JAPANESE CLIMBING.—A vigorous grower. Fruit from 12 to 16 inches long, dark green and smooth. Flesh pure white, crisp and tender.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.00

DAVIS' PERFECT.—As now selected. The long, even fruits are of fine form, with an intensely dark rich green skin. The solid white flesh is of superb quality for slicing. So handsome and regular that they bring an extra price on the market.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.15

ARLINGTON WHITE SPINE.—One of the best sorts for table use. Vines vigorous, fruiting early and abundantly. Fruit uniformly straight, light, bright green in color. Fresh, crisp, tender and of excellent quality.

Pkt. 10c; oz. 25c; 4 oz. 35c; lb. \$1.15

IMPROVED LONG GREEN.—Fruit is from 8 to 12 inches long, dark-green, crisp and tender. Fine for slicing, and when ripe they are the best for sweet pickles.

The leading large variety.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

GHERKIN FOR PICKLING.—A very small, oval, prickly variety, quite distinct from all others.

Pkt. 10c; oz. 25c; ¼-lb. 75c

EARLY FORTUNE.—Very popular, perfect and regular shape; vigorous and very productive; crisp white flesh.

Pkt. 10c; oz. 25c; 4 oz. 50c; lb. \$1.50

BOSTON PICKLING.—A distinct variety, very popular for pickles; color bright green, a great producer and of excellent quality.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

LEMON CUCUMBER.—Highly recommended by all who have tried it for slicing and salads. Resembles a lemon both in size, form and color. Has a distinctive and delicious flavor superior to and not found in any other cucumber. A variety of real merit for the home garden—try it.

Pkt. 10c; oz. 25c; 4 oz. 60c

EGGPLANT

BLACK BEAUTY.—The earliest and best variety for Oregon. Oval shaped, deep purple, large size and fine flavor. Culture same as for tomatoes.

Pkt. 10c; ½-oz. 40c; oz. 75c; 4 oz. \$2.25

ENDIVE

This plant furnishes an attractive and appetizing salad for the fall and winter months.

GREEN CURLED.—Leaves beautifully curled, dark-green, tender and crisp.

Pkt. 10c; oz. 20c; 4 oz. 50c

WHITE CURLED.—Very tender and light green, blanches easily, very ornamental.

Pkt. 10c; oz. 20c; 4 oz. 50c

USE "MARVEL."—So many of our customers tell us of the wonderful results, the increased yield and quick growth obtained by using our Odorless "Marvel" Fertilizer that we again call YOUR attention to it. Remember you can get it by parcel post. See page 30.

CARROTS

ROUTLEDGE CORELESS

The finest early table variety grown. You will be delighted with the melting tenderness and sweet, mild flavor of Routledge Coreless. (See cut.)

Uniform in shape and grow just the right size for table use. The flesh is of a fine texture, entirely devoid of coarseness; color orange-scarlet, very attractive.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$1.50

EARLY SCARLET HORN.—A very fine extra early table carrot. Tops small, roots about 3 inches long, deep rich orange.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

CHANTENAY or MODEL.—The Market Gardener's Favorite.—Tops medium sized, necks small, top of root quite thick and tapering to a uniform stump root, smooth; color deep orange-red; flesh very crisp and tender; medium early; a heavy cropper 6 to 7 inches long.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.00

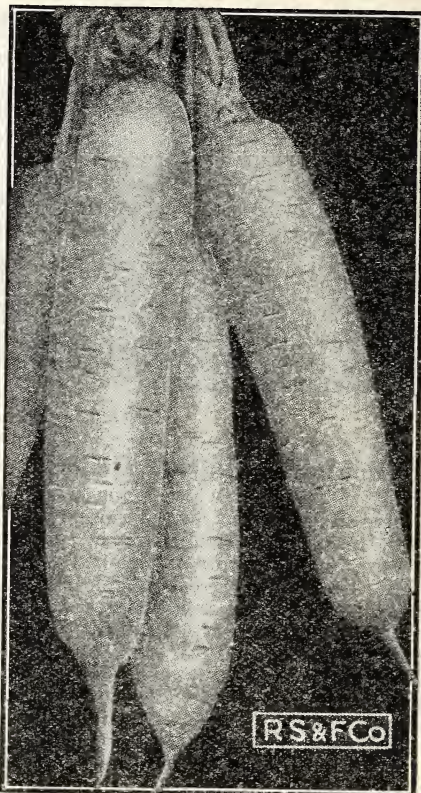
DANVER'S HALF LONG.—A great favorite, big cropper, medium size, rich, dark orange. On account of its productivity it is a profitable variety to grow for stock feeding. Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 90c.

LONG ORANGE IMPROVED.—Color, with long, smooth, tapering roots, requiring a deep soil. Excellent for stock.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 90c

GUERANDE, or OXHEART.—Bright orange, broad and thick. Length about 4 to 5 inches; excellent for shallow soils.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 90c



Routledge Coreless

LARGE WHITE BELGIAN.—Extensively grown for stock feeding; long white roots; flesh rather coarse. A good cropper. Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 90c



Routledge Mammoth

Routledge Mammoth Stock Carrot

The heaviest cropping carrot grown, yielding more tons to the acre than any other sort. The flesh is yellowish-white, crisp and solid, and very sweet in flavor. It is a vast improvement on the Belgian sorts, which have been favorites in the past, as it is not only much more productive, but vastly easier to handle. The roots are short and very heavy at the shoulder, rendering them easily harvested. Too much can scarcely be said of their size and great productivity.

Large pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25; 2 lbs., enough for one acre, \$2.00.

For complete seed and plant tables, amount to plant, etc. see complete reference TABLES INSIDE BACK COVER. Always refer to "INDEX," pages 2 and 3, for ANYTHING WANTED.

Highest
Quality

CELERY Celery Plants

Page 29

R. R.'S WHITE PLUME

A handsome, crisp sort, that bleaches very easily. Early, brittle, delicious and fine flavored.

Pkt. 10c; oz. 35c; 4 oz. \$1.00

PARIS, GOLDEN SELF-BLANCHING

The finest strain of French grown seed. This splendid variety is without doubt the most popular celery grown. It is a self-blanching sort, for with a little banking or covering, even the outer ribs assume a beautiful golden-yellow, while the heart of vine stalks are deliciously tender, brittle and sweet.

Select quality: Pkt. 15c; ¼-oz. 40c; oz. \$1.25; 4 oz. \$5.00.

GOLDEN YELLOW SELF-BLANCHING

Same variety of celery as above, but is American grown. High quality seed.

Pkt. 10c; oz. 60c; 4 oz. \$2.00

GOLDEN PLUME.—A large, medium early celery of superfine quality and appearance. Heavy stalks with full, solid heart of golden yellow, easy to blanch, a good keeper, and always of the crisp, brittle and nutty quality so much desired. Shows a marked resistance to blight.

Pkt. 20c; ¼-oz. 50c; oz. \$1.50; 4 oz. \$4.00

GIANT PASCAL

Excellent for fall or winter use. A large, tall grower of the finest nut flavor. Very broad stalks, blanching very quickly with little banking up; an admirable keeper.

Pkt. 10c; oz. 30c; 4 oz. 75c

CELERIAC

Turnip Rooted Celery.—The roots, which are the edible portion, keep well for winter use and are excellent for soups and stews.

LARGE ERFURT.—An improved form, producing large, smooth roots, which are nearly round. Pkt. 10c; oz. 25c; 4 oz. 75c

GARLIC

Separate the sets and plant them in drills eight inches apart and four to six inches apart in the drill, covering two inches deep. Cultivate like onion sets. When the leaves turn yellow, pull up the bulbs and dry in the shade.

8 oz. 30c; lb. 50c, postpaid

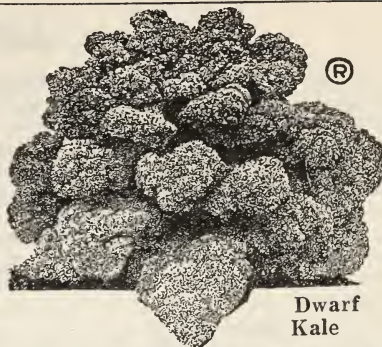
Write for quantity price. Requires about 250 lbs. sets per acre.

LEEK

A species of onion which does not form a bulb, but is used for its mild and delicious root, stem or neck.

AMERICAN FLAG.—Mild and sweet; long, large stems; hardy and of the finest quality. The favorite variety of Leek.

Pkt. 10c; oz. 30c; 4 oz. 75c



Dwarf
Kale

KALE, OR BORECOLE

Culture for Kale is the same as for cabbage. With the tall varieties it is customary to pull off the lower leaves and let the plant grow on to furnish a continuous supply. The sweetness and flavor of these greens are improved by frost or light freeze.

DWARF GREEN CURLED.—Long plume-like leaves with edges finely cut, tender and of fine flavor.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

TALL GREEN CURLED.—Grows about 2 feet high; leaves dark-green; curled and wrinkled; fine quality. Most popular.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

EMERALD ISLE.—Of medium height, leaves attractive, closely curled and of fine flavor.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$1.75

COW KALE or THOUSAND HEADED
Pkt. 5c; oz. 15c. See Field Seeds, page 36.

KOHL-RABI

A delicious vegetable. Highly esteemed for their mild, delicate flavor.

Sow the seed thinly in drills where the plants are to stand and thin out to 6 inches apart. The bulbs or roots grow quickly and should be used when no larger than a tennis ball. It is best to make several sowings.

EARLY WHITE VIENNA.—Extremely early, medium size, excellent quality.

Pkt. 10c; oz. 25c; 4 oz. 85c

MUSTARD

The leaves of mustard make excellent greens of sharp, pungent flavor, and are cooked the same as spinach or beet leaves.

SOUTHERN GIANT CURLED.—Large variety, forming a great mass of beautiful leaves, which are ruffled and finely curled on the edges; hardy and vigorous.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 90c

White English.—Seed yellow and pungent, used for grinding and for flavoring pickles. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. 90c

For HORSERADISH, RHUBARB AND ASPARAGUS ROOTS, Etc., see page 81.

LETTUCE

PRICES.—Unless otherwise marked:
Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25.

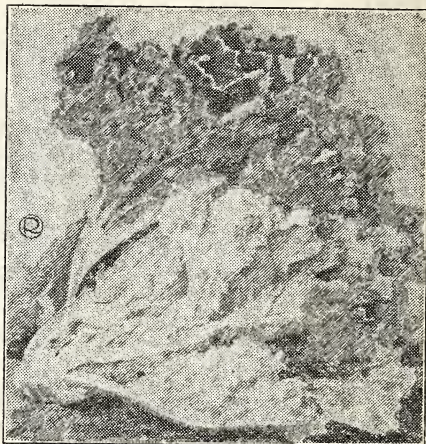
GRAND RAPIDS.—Very popular with private gardeners and as a lettuce for greenhouse forcing. Of quick growth and stands for some days after being fit to cut. The plant is upright, and forms a cluster of large bright-green leaves, finely crimped and ruffled; good flavor, crisp and tender.

EARLY PRIZE HEAD.—A large clustering, non-heading lettuce, excellent for the home garden and undoubtedly the most easily grown variety in cultivation. The leaves are finely curled and crumpled, are bright green tinged with brownish-red, very crisp, tender and sweet.

BIG BOSTON IMPROVED.—This is a foremost spring Lettuce with attractive heads growing to enormous size—often the plants measure 10 to 12 inches across. During the cool weather it heads particularly well, forming a tightly folded heart which consists of beautifully blanched, tender, and juicy leaves. The color of the heart is light golden yellow.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

EARLY WHITE COS. "Salad Romaine" or Celery Lettuce.—Heads tall and circular. As a salad lettuce it is highly esteemed.



Grand Rapids

SIMPSON'S EARLY CURLED.—A very extensively used early loose-leaved, or clustering variety. Leaves light-green, slightly frilled, crisp, sweet and tender.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00.

HANSON.—Improved Hard Heading Stock.—A very popular head lettuce. We can recommend this as one of the very best. Heads green outside and white inside; grow to a remarkable size; very solid, and is deliciously sweet, crisp and tender.

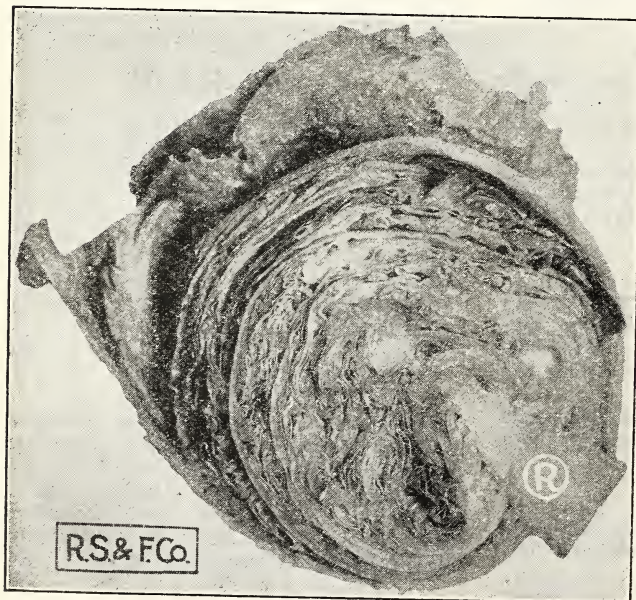
R. R.'S WONDERFUL

Our grower has given this stock special attention and it is a wonderful strain. It produces immense heads of closely folded ruffled leaves. The heart blanches beautifully and is crisp, tender and delicious. A robust variety, rooting deeply and thus able to resist hot dry weather; a sure header and slow to seed. The outer color is of a distinct apple-green. A rapid grower and unsurpassed as a home or market lettuce. When you transplant, set plants 18 inches apart in the rows.

Two-year Seed: Pkt. 15c;
½-oz. 20c; oz. 35c; 4 oz.
\$1.00; lb. \$3.50.

SNAROL

The guaranteed slug and snail and pest destroyer. No use of having your garden plants ruined. Use Snarol on page 90.



R. R.'s Wonderful

HIGHEST QUALITY LETTUCE SEED.—We pay our grower extra money for selecting seed from extra choice stock. It's worth double common seed generally offered.

LETTUCE — Continued

New York Improved

Improved round head. A large, crisp, curly-leaved, close-heading lettuce of the finest quality. Great favorite in all markets. Carloads of this variety are shipped by market growers and it brings the highest prices.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.25
Two-year seed: Oz. 40c; 4 oz. \$1.00; lb. \$3.00.

R. R.'s Tender Crisp

A distinct and extra choice variety for those who like curly, crisp, tender Lettuce of the finest quality.

Grows to a large size, makes most desirable heads, and retains its crispness and mild flavor to a greater degree than any other variety. While especially adapted for midsummer, it is desirable also for spring and fall. The plants are of quick, strong growth; the leaves are of a soft, bright-green, growing closely around the heads, which become quite solid. The heart blanches to a beautiful silvery white, tender yet mild flavored and unsurpassed.

Pkt. 10c; oz. 20c; 4 oz. 65c; lb. \$2.25

ICEBERG.—Produces large, firm heads, very tender and brittle. Withstands hot weather better than most sorts.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.25

WATERMELONS

Routledge's Oregon Prize

An Extra Early Variety

We offer this Melon with the assurance that it is not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown. The flesh is of a deep scarlet. It will ripen in altitudes where it has not been thought possible to mature a good watermelon.

Pkt. 10c; oz. 25c; ¼-lb. 65c; lb. \$2.25

HALBERT HONEY.—An early maturing variety suited to the Northern states; vigorous and very productive. Flesh beautiful crimson, tender, sweet and delicious.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

BLACK SEEDED ICE CREAM.—An excellent melon that has become very popular here. Round in shape with a thin ivory-colored skin. Flesh pink, sweet and of fine flavor and quality.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

CITRON (Red Seeded).—Used exclusively for pickles and preserves.

Pkt. 10c; oz. 25c

Chicken Lettuce

Lettuce is an excellent food for chickens. it is just the "greens" they require to keep in the best of health. It yields as much or more than other green foods, for when once cut it starts again or the leaves can be pulled off the lower stems as it does not make a head, but sends up a stout stalk three to four feet high just loaded with leaves. For large size do not crowd it. Transplant from the crowded rows.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.35

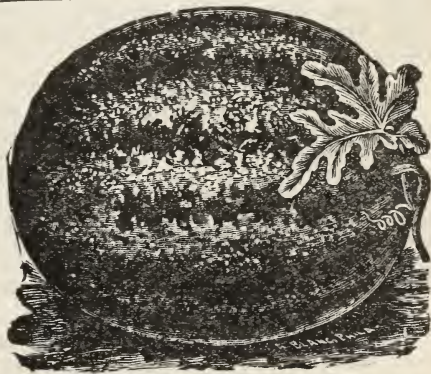
MUSHROOM SPAWN

LAMBERT'S PURE CULTURE SPAWN

MUSHROOM CULTURE.—We have instructive leaflets on Mushroom Culture. Free with an order of one or more bricks. Lambert's Pure Culture Spawn is far superior to the old-style varieties, and much better results can be obtained from its use. The bricks should be broken into pieces about two inches square and planted from 10 inches to a foot apart. Bricks weigh from 18 to 20 ounces. A brick will spawn 10 square feet of bed.

DIRECT SPAWN.—Latest and best. Mammoth White, Cream White or Bohemian Brown.

Price, per brick, not prepaid, 35c; 10 bricks, \$3.00; add postage at rate of 1½ lbs. per brick.



KLECKLEY'S SWEET.—Medium early fruit of good size, oblong; skin dark, glossy green; flesh is bright scarlet, crisp, and sweet.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

KLONDYKE.—Of real merit and unsurpassed for home or local market. Melon, oblong, dark green. Flesh, rich bright red, exceptionally brittle and sweet. Extra early.

Pkt. 10c; oz. 25c; 4 oz. 65c; lb. \$1.75

"END-O-PEST".—Keep the slugs away from your lettuce and other plants by using "End-O-Pest"—GUARANTEED. See page 109.

MUSKMELON

PRICES.—Your choice of following kinds: Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.25.

POLLOCK 10-25

Considered by many growers to be the finest commercial variety. Very productive, melons of even size, beautifully netted. Very small seed cavity with thick, luscious flesh of a genuine salmon tint, shading to green near the rind. A splendid keeper and shipper.

NETTED ROCK OR ROCKY FORD

An old favorite and one of the Most Popular and Best Sellers among the Rocky Ford Melons.

The fruit is oval and completely covered with a heavy netting. The flesh very thick; light green, very sweet and delicious and of superb flavor; medium in size, a great favorite.



EXTRA EARLY HACKENSACK

A great favorite among home growers. Quite early. Of fine, large form, heavily ribbed and netted. Flesh is a beautiful light green, thick, sweet, and of finest flavor. A delicious variety.

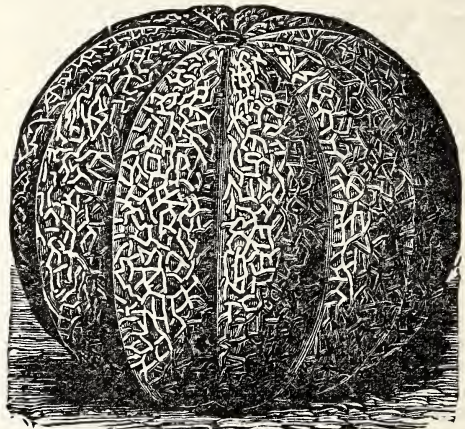
Delicious Gold Lined

HOODOO

Produces an abundant crop of most delicious melons of convenient size for the table use. Skin thickly netted, flesh rich, deep orange, meaty, fine grained and sweet.

DELICIOUS GOLD LINED

Growers for home and for market will be delighted with "Delicious Gold Lined," both on account of its desirable size and unsurpassed quality. Very uniform in size and shape, nearly round, thickly covered with grayish netting. The flesh, on light green with a beautiful light golden tint next to the seed cavity. The flavor is delicious, being remarkably sweet and juicy.



Extra Early Hackensack

BURRELL'S GEM

Select Strain.—A good-sized oval variety, well ribbed and covered with a fine grayish netting and having reddish-orange fine grained flesh of fine, spicy flavor, sweet and delicious. Very popular locally.

GOLDEN BEAUTY CASSABA

Fall and Winter Muskmelons

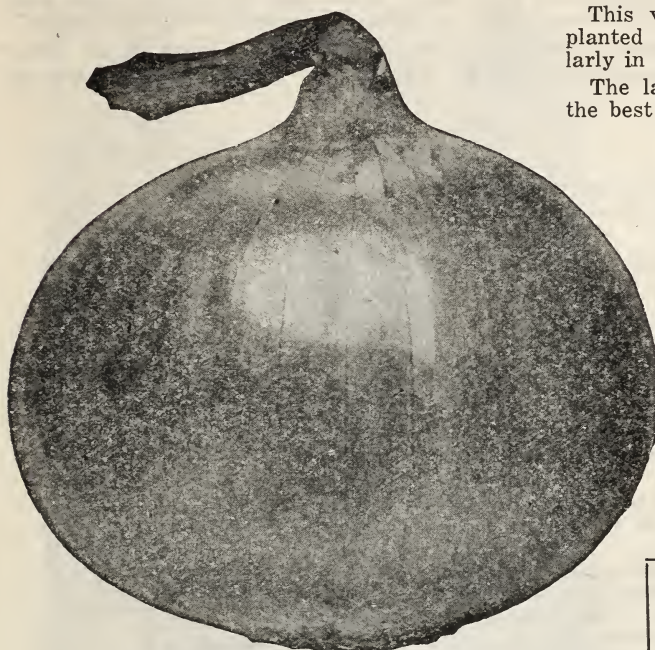
Skin wrinkled, flesh thick, excellent flavor and fine aroma. When nearly ripe pick and stow away in a cool, dark place until the rind becomes slightly softened and moist.

HONEY DEW

A Large Melon of Real Merit

When ready to pick the melons will be of a light creamy yellow, almost white. The rind is very smooth. The flesh is a light green, very thick, fine grained, exceptionally sweet and juicy. The flavor is delicious. Honey Dew is a long keeping melon, remaining in good edible condition for several months. In shape it is oval, oblong, six to seven inches thick and almost round. An excellent shipper. When fully ripe the rind will give to the pressure of your thumb as in a mellow apple.

Ask our salesmen what to **DUST ALL VEGETABLE VINES** with to keep insects and blight away and **INCREASE YOUR YIELD**. See Sprays, pages 88 to 90.

True Seeds**ONION****Highest Quality****Oregon Yellow Danvers Onion****Riverside Sweet Spanish**

The flesh mild, pure white and sweet. They make handsome looking onions. A fine shipper and good keepers, quick sellers. The onions will range in size from 3 to 5 inches in diameter if given good soil, cultivation and ample room.

An ideal globe-shaped onion with a light yellow skin.

Pkt. 10c; oz. 40c; 4 oz. \$1.40; lb. \$4.00

LARGE RED WETHERSFIELD

The standard variety of the red onions. Of large size and rather flat.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

PRIZE TAKER

This onion has become a great favorite. It is perfectly globe-shaped, with straw-colored skin; the necks are very small and the onions always ripen up hard. An excellent keeper, exceedingly fine, mild flavor; very popular.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.35

AUSTRALIAN BROWN

Extra early, sure cropping variety, with extra long keeping qualities. Excellent quality; bright reddish-brown skin.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.75

This variety is very extensively planted in the Northwest, particularly in Oregon.

The largest crops of onions and the best keepers, bringing the highest prices on the Pacific Coast and Middle Western markets, are the Oregon Yellow Danvers. The bulbs are uniformly large, a full three-quarters globe shape with small necks. It matures quite early, is the largest in size, most perfect in shape, the largest cropper and one of the best keepers, and as a market or table onion cannot be excelled.

Pkt. 10c; oz. 20c; 4 oz. 65c; lb. \$2.25.

Treat Your Onion Seed With "SEME-SAN" Means More Dollars to You.—See Page 36 and Ask for Special Leaflet.

SOUTHPORT WHITE GLOBE

An enormous yielder and superb keeper; perfect globe-shaped, very large, clear white skin and considered one of the handsomest varieties grown. Planted extensively by gardeners for both dry use and green onions. Mild and sweet.

Pkt. 10c; oz. 30c; 4 oz. 75c; lb. \$2.75

WHITE PORTUGAL OR SILVERSKIN

A good, hardy, medium early, half-globe shaped, a fine cropper; very firm and an excellent keeper. Excellent for bunching green, or for pickling, if grown close so as to hold the size down.

Pkt. 10c; oz. 30c; 4 oz. 75c; lb. \$2.50

ONION SETS

BOTTOM ONION SETS.—Small onions are grown from seed.

Per lb. 25c; 5 lbs. \$1.00, postpaid. Write for quantity prices.

TOP SETS, lb. 40c; not postpaid, 30c.

SHALLOTS.—Each bulb makes from 3 to 5 green onions. Per. lb. 35c, postpaid.

"H. Q." AND "MARVEL" FERTILIZERS, MIXED ABOUT 25 LBS. OF "MARVEL" AND 3 SACKS "H. Q." WILL GIVE GARDENERS GREAT RESULTS. SEE PAGE 30.

"Highest Quality" GARDEN PEAS**Hand Picked**

There is a vast difference in "strains" of garden peas. You will find our stock "very superior," healthy, vigorous and true, much better than the average seed sold by wholesale seed dealers and jobbers. Plant our stock if you want "Highest Quality."

PEA PRICES.—Unless otherwise priced, Large Pkt. 10c; ½ lb. 20c; lb. 35c, postpaid. Not postpaid, 5 to 10 lbs. @ 25c; 25 lbs. @ 20c. Write for low 100-lb. prices.

ALASKA

An extra early, exceedingly hardy pea. Pods well filled with smooth peas of good quality. Height 2½ feet.

LITTLE MARVEL

Popular variety, very early. Vines 15 inches high; pods dark-green, medium size, closely filled with peas of extra fine flavor. Better than American Wonder.

Duke's Delight

A dwarf, extra early, delicious pea of great merit. Each year increases its popularity.

Our regular customers are now demanding it in preference to all the other early dwarf old standard sorts.

Duke's Delight easily outclasses the old popular kinds in productiveness, size and fullness of pods, and the delicious flavor and quality of the green peas. Sturdy, stocky, healthy vines about 16 inches high.

Large pkt. 15c; ½-lb. 25c; lb. 40c. Not postpaid, 10 lbs., \$3.00; 25 lbs. \$6.25; 50 to 100 lbs., write.

Get the true "Duke's Delight" by ordering direct from us. Take no substitute.

Yakima, Wash., March 12, 1890.

Routledge Seed & Floral Co.

Dear Sirs: Please send me that one pound of Duke's Delight Peas as soon as possible. I can't make a garden without seeds from your firm. The peas are the best ever, and we have good success with them here. Yours respectfully,

MRS. S. G. LONG.

Umatilla, Oregon, April, 1930.

Gentlemen: I have had wonderful success with the Duke's Delight peas and have a good many of my neighbors using them.

MRS. MINNIE McFARLAND.

LAXTONIAN OR BLUE BANTAM

Unsurpassed among the "first early" large podded peas, of superb quality. The dwarf, sturdy stocky vines average 15 inches in height and yield an enormous crop of large, dark-green pods that average 4½ inches long and are tightly packed with large, deep green peas of most delicious flavor and quality. We know you will like Laxtonian.



Duke's Delight

LAXTONS PROGRESS

A new giant podded dwarf variety, very productive and extra early.

GRADUS

Extra early. This popular large-podded, wrinkled pea of finest quality matures pods only two or three days later than the small-podded extra earlies. Vines four feet high. It produces uniformly large, long pods, nearly round, and well filled with very large, handsome peas of the finest flavor. Very popular with market gardeners.

DWARF TELEPHONE

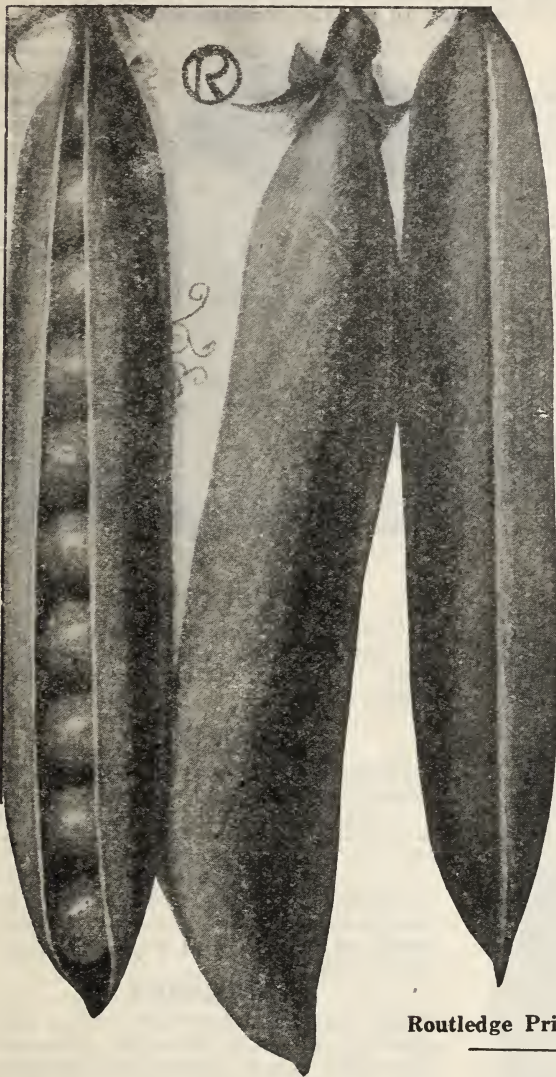
A splendid mid-season variety, growing about 2 feet tall, vines very sturdy and bear a good crop of large, long pods, containing 7 to 9 large peas which are tender and sweet. A popular sort.

MAMMOTH MELTING SUGAR (Edible Pods.—The large broad pods are 5 to 6 inches long and are cooked like snap beans. Vines grow 5 to 6 feet tall. Pkt. 10c; ½-lb. 25c; lb. 45c

Be sure you read about inoculating pea seed. It increases the yield and improves the soil. (See page 32.) They also claim wonders for crop seeds treated with "Semesan."

PEAS—CONTINUED—LARGE PODDED, LATE OR MAIN CROP

For pries on Peas see top of page 20.



Routledge Prize

Telephone

A popular sort for main crop. Vines tall and bearing profusely long, handsome pods full of large, tender, sweet peas of superb flavor.

Alderman

Excellent market variety. The large, dark green pods, filled with big, sweet flavored peas. Vines tall and vigorous.

IMPROVED STRATAGEM

A very productive, vigorous, semi-dwarf variety with large, dark-green pods, always well filled. In quality it is unsurpassed.

Routledge Prize

A sweet, wrinkled mammoth podded Pea of extra value.

A strong, sturdy, healthy grower. Vines and pods are a rich green. A bushel of Routledge Prize pods will shell out nearly twice as many peas as a bushel of most kinds. The vines are enormously productive, being completely covered with immense long pods, well filled with from 8 to 11 large peas of the richest flavor. This variety grows 5 to 6 feet high and as an abundant cropper is superior to all other tall sorts.

Nothing in the line of peas excels the Routledge Prize in richness, sweetness and flavor. Read reports below.

Large pkt. 15c; ½-lb. 25c; lb. 40c. Not postpaid, 10 lbs. \$3.00; 25 lbs. \$6.25. Low 100-lb. price, write.

PARSLEY

CHAMPION MOSS CURLED.—A very select English strain having dark green moss-like curly leaves.

Pkt. 10c; oz. 20c; 4 oz. 40c

HAMBURG OR TURNIP ROOTED.—Grown for the edible roots which are used for flavoring soup and stews.

Pkt. 10c; oz. 20c

Beaver, Oregon, March 12, 1930.
Routledge Seed & Floral Co.

I bought these peas (Routledge Prize) of you last year and have never had peas produce like they do. They sure do what you say.

R. G. COOK.

Amboy, Wash., April 11, 1930.
Routledge Seed & Floral Co.

Dear Sirs: I tried Routledge Prize Peas last year. They could not be beat—were so full of big pods they looked like a picture. Every one who saw them thought them wonderful.

MRS. B. RINGSTEAD.

"Highest Quality" POTATOES True and Pure

We offer a few varieties of special merit that we recommend.
 WRITE, WHEN READY TO BUY, AND STATE AMOUNT WANTED
 PRICES.—Small lots: 5 lbs. 40c; 10 lbs. 75c; Postage Extra.

"EARLIEST OF ALL"

Its quick growth and early maturity combined with its excellent cooking qualities, makes it very valuable. Plant early to obtain large size. Ready for the table nine weeks from planting, and fully matured in twelve weeks.

"Earliest of All" is a healthy, vigorous grower, does not make a second growth. Keeps as well as any late potato. A handsome, shallow-eyed, round, flattened, white skinned potato of the finest quality.

BLISS TRIUMPH

Extra Early

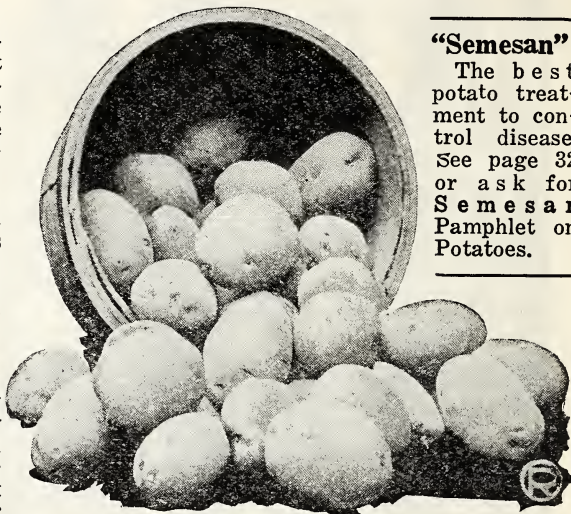
One of the best extremely early potatoes. Very hardy, vines stocky and compact and can be planted closer than late sorts. Tubers almost round, very smooth, pink skin, few eyes. Quality and flavor excellent. The heaviest yielder of the extra early varieties.

EARLY ROSE

It's hard to beat the Early Rose if the stock is clean and pure. We offer the best hand selected stock obtainable.

IMPROVED BURBANK

The standard and most popular commercial variety. We offer improved re-selected, healthy stock.



Earliest of All

NETTED GEM

Also known as "Russet Burbank," "Yakima Gem," etc. A splendid main-crop variety. We offer healthy, heavy producing stock.

OKRA

IMPROVED DWARF GREEN.—Very productive; long, slender green pods.

Pkt. 10c; oz. 20c; 4 oz. 35c; lb. \$1.00

PARSNIP

Highly appreciated for table use. Plant same as carrots and thin out to 3 to 4 inches apart. Parsnips make a very rich food for stock.

GUERNSEY

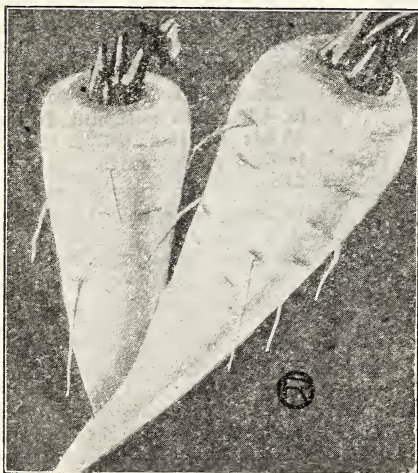
The roots are medium long, with a broad shoulder, gradually tapering downward. The white skin is smooth and attractive. Guernsey is not so long, easier dug and very productive. The fine-grained, tender, and sweet flesh makes it essentially a table variety, but it is also grown for stock-feeding on account of the immense yield.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

HOLLOW CROWN

Well known popular variety, with long, tapering roots, very smooth and of the finest quality. Derives its name from a depression at top of crown or root; very fine table sort.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00



Hollow Crown Parsnips

MARVEL Q. A.—A profitable fertilizer for increasing the potato crop; of highest quality, reasonable in price. See page 30.

PUMPKIN

DOUBLE THE YIELD AND SIZE OF YOUR PUMPKINS by using a handful of "MARVEL" Fertilizer to each hill, and be sure you mix it well with top soil. (See page 30.)

Winter Luxury

Extra early, enormously productive, medium size, superior keeping qualities. Golden orange color with heavy netting. Rich, thick, golden flesh; sweet and tender. The best pumpkin for pies.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

SMALL SUGAR.—The New England pie pumpkin. Small, bright orange color. Flesh deep yellow, fine quality. Matures early.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

KING OF MAMMOTHS.—The largest of all; grow this variety to win the prizes at the fair.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

CONNECTICUT FIELD.—Popular for field culture and excellent for stock. Large, orange-yellow.

Pkt. 10c; oz. 15c; 4 oz. 30c; lb. \$1.00

LARGE SWEET CHEESE.—A very large variety; fruit flattened, yellow when ripe, flesh yellow, very thick, tender; very nutritious and of excellent quality. A heavy yielding variety.

Pkt. 10c; oz. 15c; 4 oz. 30c; lb. \$1.00

PEPPER

Plant seed early in the spring; raise same as for tomatoes. Plants in season.

LARGE BELL OR BULL NOSE.—A very prolific variety, producing good sized, mild, thick fleshed fruit. Fine for salad and stuffing. Very popular with all gardeners.

Pkt. 10c; oz. 60c

CHINESE GIANT.—The largest of all the bull-nosed varieties, thick meated, very sweet and mild. Excellent for stuffing.

Pkt. 10c; ½-oz. 35c; oz. 60c

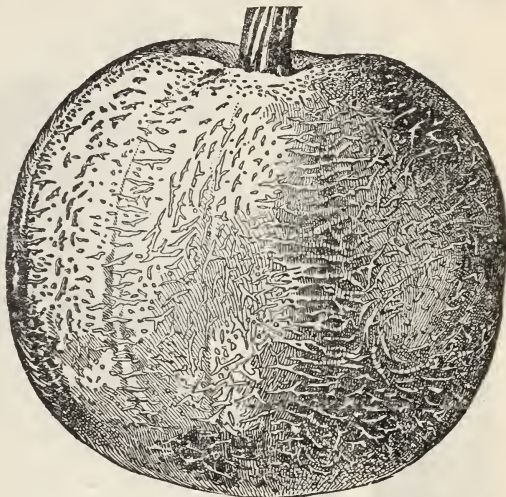
RUBY KING.—Fruit extra large and well formed. They ripen ruby scarlet. The flesh is extremely thick, sweet and mild.

Pkt 10c; ½-oz. 35c; oz. 60c

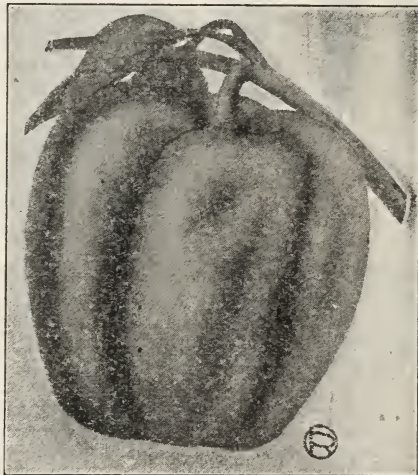
Burpee's Sunnybrook

The sweetest and most prolific of all Pimiento peppers, with smooth green fruit turning to scarlet; 3 inches thick and 2 to 2¼ inches deep. The flesh is unusually thick and sweet. Plants tall and broad, laden with clusters of fruits. An ideal sort for stuffing or salads.

Pkt. 10c; ½-oz. 35c; oz. 60c



Winter Luxury Pumpkin



Large Bell or Bull Nose Pepper

PIMENTO (Perfection).—Fruit bright scarlet, very thick fleshed and very mild and sweet. Pkt. 10c; ½-oz. 30c; oz. 60c

RED CHILI.—A small pointed, bright red variety, pungent and hot.

Pkt. 10c; ½-oz. 30c; oz. 60c

CAYENNE.—Medium long, narrow pointed red pods; very hot and strong.

Pkt. 10c; ½-oz. 30c; oz. 60c

DO YOU SEND EAST for your Seeds? It's bad policy. Spend your money on this Coast. Here's where you sell your products. Our seeds are highest quality and priced right.

"Highest
Quality"

RADISH

"Highest
Quality"

For a continuous supply of crisp, tender Radishes, sow seed every week, as they remain in "prime" condition only a few days after attaining full size. Use "H. Q." page 30.



PRICES.—All varieties except Nerima: Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 90c.

SCARLET TURNIP, WHITE TIPPED.—A beautiful variety; deep scarlet, with white tip. Very early, crisp and delicious. Very popular as a market sort. (No. 5.)

SPARKLER.—Similar to the above but the whole lower half is pure white, upper half bright scarlet. Many prefer it. Crisp and tender, little larger.

EARLY SCARLET TURNIP.—Small top; of quick growth; mild and crisp. Very popular.

FRENCH BREAKFAST.—Very popular; crisp, tender and mild; grows about 2 inches long, stump rooted, tipped white. (See cut No. 7.)

SCARLET GIANT ("Crimson Giant").—The largest early scarlet, globe-shaped radish. Flesh sparkling white, solid, crisp, juicy and mild. (See cut No. 6.)

EARLY SNOWBALL (Model White Box).—Early, clear white, solid, juicy, crisp, tender. (See cut No. 4.)

LONG SCARLET.—Grows perfectly straight and smooth, 6 to 7 inches in length; skin scarlet, very thin; the flesh crisp, brittle and of delightful flavor. (See cut No. 2.)

WHITE ICICLE.—Crisp, tender and mild; retains these qualities until the roots attain large size. It is ready for use almost as quickly as the early turnip-shaped sorts. (See cut No. 3.)

WINTER RADISHES

For winter and spring use. Sow seed in July and August. Early planting is not advisable. See prices above.

NERIMA (Japanese Long White).—A late fall and winter radish. It grows from 12 to 30 inches long and about 2 inches in diameter. Skin white and smooth, flesh firm, crisp, tender and mild.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

LONG BLACK SPANISH.—Very popular; latest, as well as the hardiest. Roots of medium size, oblong, black.

ROUND BLACK SPANISH.—Three or four inches in diameter; flesh white; good keeper.

CALIFORNIA MAMMOTH WHITE.—Also called Chinese White Winter or Celestial. A long, thick, stump-rooted variety. Pure white. The flesh is tender and crisp, keeping well through the winter.

CHINA ROSE.—Bright rose color, flesh firm and piquant, largest at the bottom. One of the best in this class.

DON'T GROW WORM-EATEN RADISHES. Use "Carco"—New Discovery. See page 88.

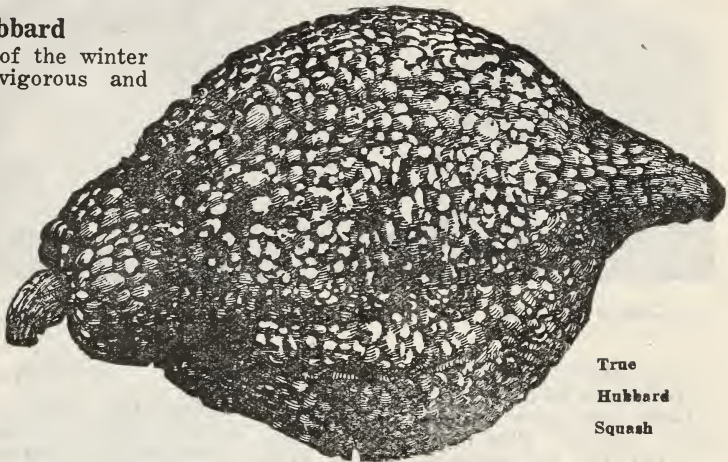
SQUASH — Fall and Winter

DOUBLE the yield of your squash by using a cupful of "MARVEL" Q. A. Fertilizer well mixed with the soil to each hill. (See page 30.) You know the richer your ground, the larger the yield, and "Marvel" Fertilizer certainly contains more plant food than any other brand.

True Hubbard

One of the best of the winter squashes. Vines vigorous and very productive. Fruit large, heavy, moderately warted with very hard shell. Skin uniformly dark bronze green. Flesh bright orange-yellow, fine grained, thick, dry and richly flavored. Can be kept in good condition until spring. Our seed is carefully selected.

Pkt. 10c; oz. 20c;
4 oz. 40c; lb. \$1.25.

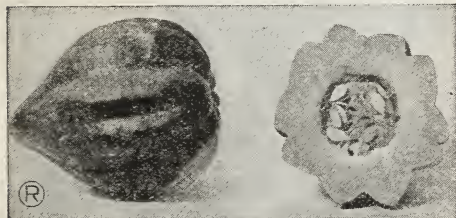


True
Hubbard
Squash

GOLDEN HUBBARD

It is a rich golden color and somewhat warted; a long keeper; one of the very best fall and winter sorts yet introduced. Matures early; is vigorous and wonderfully productive. Flavor and quality unsurpassed.

Pkt. 10c; oz. 15c; 4 oz. 40c; lb. \$1.10



Danish Table Queen

BANANA SQUASH (See cut)

Grows 1½ to 3 feet in length. The skin varies from dark olive-green to slate color outside. Flesh firm, very thick, finest quality and rich orange. Ready early in the fall and will keep until late spring. A very popular variety.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

IMPROVED BOSTON MARROW

A popular variety for canning; large oval fruit; skin bright reddish-orange; flesh rich orange, fine grained and of excellent quality.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

MAMMOTH CHILI

Grows to an enormous size, often weighing over 200 pounds. Flesh thick, and fine quality. Its size makes it valuable for stock feeding.

Pkt. 10c; oz. 15c; 4 oz. 25c; lb. \$1.00

DANISH—TABLE QUEEN

An ideal table squash, about 7 inches long and 5 inches thick. Very popular and much in demand. Color dark green with a splash of orange red; very productive. Shell hard and smooth and ridged. Cut in half and bake in the shell—try it. Fine grained and finest quality. None better.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

ENGLISH VEGETABLE MARROW

Creamy white. A favorite English variety about 12 inches long. Flesh tender, delicious.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

THE GARDEN GUIDE

and other up-to-date
and valuable books
on gardening listed
on page 85.



Banana—Fall and Winter Squash

SQUASH — Continued — Summer and Fall



Golden Custard

White Bush Scallop

Golden Crookneck.

GOLDEN STRAIGHTNECK AND GOLDEN SUMMER CROOKNECK

Large size, early and very prolific. Excellent quality. Fine for summer use.

Pkt. 10c; oz. 20c; 4 oz. 35c; lb. \$1.15

MAMMOTH WHITE BUSH SCALLOP

Large, early, clear, creamy white. Excellent quality fried or stewed. Same prices as above.

GOLDEN CUSTARD BUSH SCALLOP

An extra early variety of good size and excellent quality, very prolific. Same prices as above.

DELICATA SQUASH

Oval fruit about 9 inches long, yellow, striped and marbled with olive-green. Flesh thick, of fine texture, excellent quality, yellow; turns out dry, mealy and sweet either baked or boiled. Very productive.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.25

ITALIAN OR ZUCCHINI

Favorite Italian squash. A delicious summer sort, should be eaten when young and 4 to 6 inches long.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

SPINACH

Spinach supplies the most healthful greens we have. Hardy and easy to grow. Sow 1 inch deep in rows and thin out the plants to 3 inches apart. Plant in March and April, August and September. Does not mature well in hot weather.

BIG CROP

New Giant Spinach of Real Merit

Big Crop is a quick growing, large-leaved variety, and will produce an immense crop quicker than any other, yet it will stand long before going to seed. Leaves large and upright, almost smooth, and of excellent color and quality.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. 95c

KING OF DENMARK

Large, round, thick leaves which are a rich, dark green; valuable sort, good quality.



"Big Crop" New Spinach

IMPROVED THICK-LEAVED.—Grows very rapidly, forming a cluster of large smooth leaves of fine color and quality. Very hardy; popular for spring or late fall.

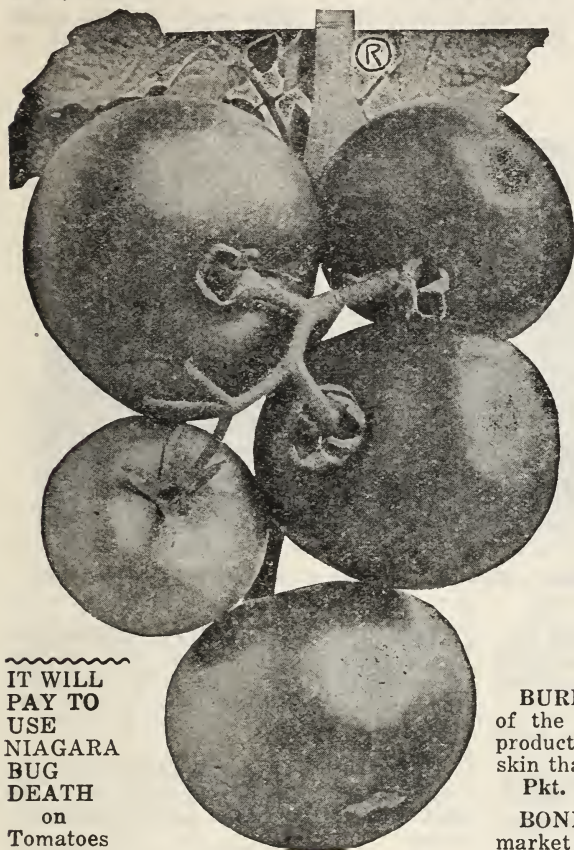
PRICKLY WINTER.—Very desirable; very hardy; bears large, thick, broad pointed leaves. A fine winter variety.

PRICES.—Your choice of above, except Big Crop: Pkt. 10c; oz. 15c; 4 oz. 25c; lb. 60c; 10 lbs. any kind, 10c less per lb.

Tomato Plants
in any quantity

TOMATO

Use "Semasan," Page 32
Prevents Damping Off



~~~~~  
IT WILL  
PAY TO  
USE  
NIAGARA  
BUG  
DEATH  
on  
Tomatoes  
~~~~~

SPARK'S EARLIANA.—Remarkable for its earliness, large size, uniform shape, attractive red color, and productiveness. The fruit is solid and the quality is all that could be desired. Leading early market variety

Pkt. 10c; ½-oz. 20c; oz. 75c; 4 oz. \$1.00

PONDEROSA.—An old variety and as yet unsurpassed in size. Very solid, few seeds and of delicious flavor; often called the beefsteak tomato; dark crimson; 10 to 15 days later than the early sorts. Claimed by many to be the very best table variety in existence for slicing.

Pkt. 15c; ½-oz. 35c; oz. 65c; 4 oz. \$2.00

DWARF CHAMPION.—Often sold as Tree Tomato. Fruit smooth, medium sized, solid and of good flavor.

Pkt. 10c; oz. 50c; 4 oz. \$1.50

CHALK'S EARLY JEWEL.—

Our most popular large, smooth, fine flavored, extra early, bright red tomato. The flesh is thick, solid and of superb quality. A heavy cropper, of large size; excellent fruit freely produced throughout the season. The plants are healthy and strong. Excellent market variety.

Pkt. 10c; ½-oz. 25c; oz. 40c; 4 oz. \$1.25.

ROUTLEDGE SPECIAL

The "Best" Extra Early Bright Scarlet Tomato.

A vigorous, healthy grower, producing ripe fruit extremely early throughout the entire season. Very productive. Fruit large size, almost round. Very smooth and free from cracks. Beautiful bright scarlet, very solid and firm but tender meated and of superior quality.

Pkt. 10c; ½-oz. 35c; oz. 65c; 4 oz. \$1.65.

BURBANK.—A wonderful variety. One of the earliest, smoothest, solidest, most productive, bright scarlet tomato, with a skin that will peel easily.

Pkt. 10c; ½-oz. 30c; oz. 40c; 4 oz. \$1.25

BONNY BEST.—Highly prized by many market gardeners; fruit large, smooth and of a rich scarlet; flesh thick with a small core. Excellent quality. Slices exceptionally well. Nearly globe shaped, very uniform and ripens early. Good variety for greenhouse forcing.

Pkt. 10c; oz. 40c; 4 oz. \$1.25

MARGLOBE.—This new tomato is almost the same season as Bonny's Best, but the fruit is larger. It is very resistant to disease and is a very heavy cropper. Marglobe is also a fine greenhouse variety. Pkt. 10c; ¼-oz. 25c; oz. 75c; 4 oz. \$2

YELLOW PEAR.—Used for preserves. Fruit small, distinctly pear shaped. Sweet and free of acid.

Pkt. 10c; oz. 60c

GROUND CHERRY or HUSK TOMATO.—Prized for preserves, pies and sauce. Will keep in to the winter. Fruit yellow.

Pkt. 10c; oz. 50c

SALSIFY

Vegetable Oyster

Plant early, same culture as parsnips.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

TOBACCO

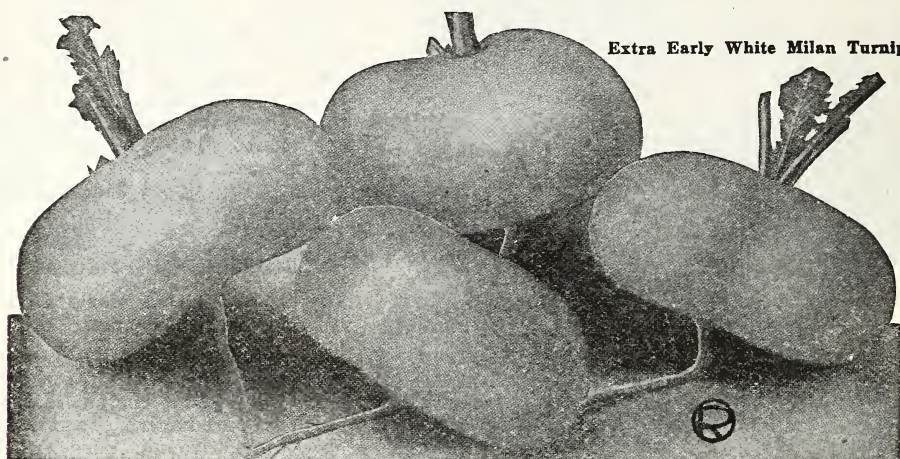
Culture practically same as cabbage.

HAVANA OR CONNECTICUT SEED

LEAF.—Both good hardy varieties for general planting here. Pkt. 10c; oz. 75c

HIGHEST QUALITY**TURNIPS****PURE STRAINS**

For spring use sow very early in rich, loose ground. They must make a quick growth to be tender and sweet. For fall and winter use sow in July, August or early September.



Extra Early White Milan Turnips

PRICES.—All prices except "Milan": Pkt. 10c; oz. 15c; 4 oz. 30c; lb. 75c, postpaid.

WHITE MILAN.—Excellent table turnip, the earliest of all varieties; adapted for very early spring or fall planting. See illustration.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.00

PURPLE TOP MILAN.—This variety is ready for table as early as White Milan; an equal to it in every way; flesh is white, firm and delicate.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.00

ORANGE JELLY, or GOLDEN BALL.—Delicate and sweet, yellow flesh, medium in size, firm, crisp and most excellent flavor; keeps well.

EARLY WHITE FLAT DUTCH.—A leading white fleshed variety; either for the family, market garden or field crop; it is medium size and produces a large crop; the flesh is firm, but tender, and of a superior rich, buttery flavor.

WHITE EGG.—Is perfectly smooth, of a pure clear white; a very choice kind for table use; of excellent flavor and mild.

PURPLE TOP STRAP LEAVED.—Flesh firm, but very tender and sweet; of quick growth.

PURPLE TOP WHITE GLOBE.—A very heavy cropping, globe-shaped variety, with white skin and sweet, tender flesh, excellent flavor and much in favor with the market gardeners. Grows quite large.

POMERANEAN WHITE GLOBE.—A large globe shaped smooth, white turnip. Good either for stock or table and resists the worms the best. One of the best keepers.

COWHORN (Long White).—Of very rapid growth. Has proved itself one of the best stock turnips ever introduced in Oregon.

YELLOW ABERDEEN.—Round, medium size, light yellow; produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet; a great favorite with the dairymen for feeding cows. Price 65c lb.

RUTABAGA—SWEDES

IMPROVED AMERICAN PURPLE TOP.—The leading and most popular variety, attaining a large size; immense yield; flesh firm, cream yellow, fine grained, sweet and tender. Excellent both for table and stock.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 75c

SWEET RUSSIAN.—Excellent for stock; large size; flesh white, solid, of a firm texture, sweet and rich, an excellent keeper.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 75c

MAG-O-TITE" FOR ROOT MAGGOTS
See Page 89

HERB SEEDS

Pot, Sweet and Medicinal

Herbs in general delight in rich, mellow soil. Those marked with a (*) are perennial.
All the following Herbs 10c per Packet, unless Otherwise Priced.

	Oz.		Oz.
Anise.—Seeds aromatic; used medicinally.....	35c	*Horehound.—Bitter; for tonic.....	60c
*Balm.—For culinary purposes	50c	*Hysop	60c
*Basil.—Sweet; for flavoring soups	40c	*Lavender.—True, for fragrance	50c
Borage.—For flavoring; also bee pasture.....	40c	*Marjoram.—Sweet, for flavoring	40c
Caraway.—For flavoring	25c	*Rosemary.—Aromatic oil, pkt. 15c	75c
*Catnip.—Mild nerveine; pkt. 15c.....	\$1.00	Summer Savory.—For flavoring.....	35c
Coriander.—Used for flavoring	25c	*Sage.—For tea flavoring and dressings.....	40c
*Dill.—Used medicinally and for pickles.....	25c	*Thyme (broad leaf).—For soup, pkt. 15c.....	75c
*Fennel.—Flavor of Celery	40c		

VEGETABLE PLANTS

We grow large quantities of choice vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We can supply all vegetable plants in TWO GRADES—plants "PULLED" direct from the seed beds AND THOSE that have been TRANSPLANTED into shallow boxes. Transplanted plants are much stronger and better rooted, and are well worth the price, especially in the early part of the season. We can supply most any of the leading sorts. Tell us your choice of varieties, and we will send it or give you a good substitute. NO PLANTS SENT C. O. D. Write for prices on 5 to 10 thousand lots.

NOTE.—Dozen and 100 prices are postpaid; 25c less per hundred if called for. We will send 1,000 lots by express at your expense.

CABBAGE, GARDEN KALE, COW KALE

	Dozen	100	1,000
Early or late, transplanted.....	\$.25	\$1.25	\$8.00
Pulled after June 10.....		.85	4.00

When ordering Kale be sure and state whether the Curly Garden or Cow Kale is wanted.

CAULIFLOWER AND BROCCOLI PEPPER AND BRUSSEL SPROUTS

Transplanted	\$.30	\$1.50	\$10.00
Late kinds, transplanted .....	.30	1.25	8.50
Cauliflower and Broccoli pulled after June 20 .....		.85	6.00

CELERY AND CELERIAC T. R.

Leading kinds, transplanted....	\$.30	\$1.25	\$ 8.50
Pulled after May 15		1.00	7.50

NOTE.—Pot grown tomato plants should have all the dirt left on the roots and are not mallable.

TOMATOES

Dozen 100 1,000

Leading kinds, our selection transplanted\$.35 \$1.50 \$10.00

We do not sell "pulled" tomato plants from the seed bed. They should be transplanted at least twice.

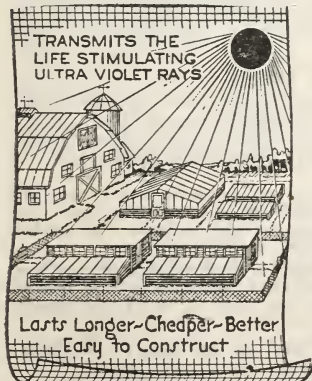
Pot Grown Tomato Plants.—These large plants give the most profitable results. Cannot be mailed. Prices: 3-in. pots, 15c each, \$1.50 doz.; 4-in. pots, 20c each, \$2.00 doz.; must go by express, charges collect.

SWEET POTATO PLANTS

Dozen 100 1,000

Sweet Potato Plants\$.35 \$1.50 \$10.00
Send your orders in early, we'll fill in proper season, from May to July 10. Oregon grown, best varieties.

Chives. (Schnittlauch).—Per bunch, postpaid, 25c



CELLO SCREEN GLASS

For poultry houses and scratching sheds, hot beds, cold frames, doors or windows, sleeping porches, partitions or enclosures or anywhere in place of glass. It's unbreakable, hail proof, rain and wind proof, cold proof, rust proof and very light in weight and flexible.

SAVES MONEY AND LABOR.—For the uses recommended, Vio-Ray is far superior to glass. Glass is expensive, easily broken and requires skilled labor to construct. VIO-RAY is easy to frame, light in weight, flexible and will not break. VIO-RAY costs less than glass yet does what glass cannot do, for it transmits the sun's healthful life-producing violet rays.

Anyone can easily build with VIO-RAY for the only tools that are necessary are shears, tacks and hammer.

SCREEN GLASS comes in rolls 100 ft. long, 36 inches wide. We cut you any length wanted. PRICE, 14c square foot; \$1.25 square yard.

FLEX-O-GLASS.—A processed cloth; gives much the same results as screen glass, and very durable; 36 inches wide. PRICE, 35c square yard; add 5c per yard if wanted by parcel post; 100-yard roll, \$29.00.

Note.—A small sample of Screen Glass or Fabric free on request.



Marvel "Q. A." (Q. A. Quick Action) ODORLESS FERTILIZER

For Vegetable and Flower beds, Lawns, Fruit and Berry bushes, Trees, Shrubs and Roses, and plants.

The best fertilizer for the city gardener; clean and odorless. Remember, it's all fertilizer; no filler, almost 100 per cent soluble and a Marvel in action, a giant in strength, and the small amount necessary to use makes it the cheapest and most efficient high-grade fertilizer on the market, and last, but not least, it is odorless.

In "Marvel" we have a meritorious and odorless fertilizer, put up in concentrated form, thereby making it inexpensive to send by parcel post, express or freight. Being a concentrated fertilizer, only a very small amount is required to produce the largest yield, a spoonful to a plant, a handful to a hill of potatoes, etc.

Remember, a 25-lb. bag of Marvel Q. A. is equal in plant food to 100 lbs. of most any other commercial fertilizer on the market. A complete and balanced plant food, very rich and strong, therefore must be used with caution. (Always mix it well with the soil—never put it directly on seed or roots.)

PRICES.—2-lb. carton (not postpaid), 25c. P. P. wgt. 2½ lbs. 10 lbs., \$1.00; 25-lb. bag, \$1.75; 100-lb. sack, \$5.50. Full directions with each lot. Write for quantity prices.

MAIL.—If wanted by parcel post, add postage. "Marvel" is odorless and 25-lb. bags will go by mail cheaper than express or freight in most cases.

NOTE.—Three sacks H. Q. SHEEP and one 25-lb. sack "MARVEL" mixed together will make a very rich combination fertilizer, that will prove highly satisfactory for all uses, as it would be very rich in plant food and supply the necessary humus for heavy soils. A WONDERFUL TOP DRESSING FOR LAWNS AND UNEQUALLED FOR GENERAL GARDEN USE.

MARVEL FERN, PALM AND PLANT FOOD

Prepared especially for ferns, palms and house plants. It will stimulate the growth and help produce fine foliage and flowers. Odorless and quick in results. Price: (7-oz. pkg.) 15c; postpaid, 25c.

SHEEP MANURE—Ordinary Grade

If you want the common or ordinary grade from open corrals we can supply it in competition with anyone, but we do not recommend a low grade. Price: \$1.00 per sack. Low ton price on request.

BONE MEAL FERTILIZER

This is finely ground and of best quality. Used for lawns roses, shrubs and trees. Not very quick in action and should be applied in the fall or very early spring. Use 1,000 to 2,000 lbs. per acre.

Prices: 5 lbs. 30c; 10 lbs. 50c; 100 lbs. \$3.00; ton, write.

"H. Q." Brand Sheep Manure (Highest Quality)

For vegetable and flower beds, plants and shrubs, berry and fruit stocks. Excellent for lawns.

"H. Q." BRAND SHEEP MANURE is prepared from an unusual quality of genuine sheep manure, taken from covered feeding sheds (not from open corrals). It has never been exposed to the weather, and is free from all sand, dirt and weeds. The manure is thoroughly dried and all the water content removed. Then it is uniformly ground or pulverized. Light in weight, but heavy in plant food.

For building up the soil or as an all-purpose plant food "H. Q. BRAND (PURE PULVERIZED SHEEP MANURE), gives wonderful results. It is a natural organic plant food that produces immediate results. It stays "on the job" and assures a quick, healthy growth and a profitable crop.

"H. Q. Brand is the HIGHEST QUALITY Sheep manure on the market. A pure, high-grade product worth much more than most stocks sold. The chemical analysis on every bag tag proves it. Most ground sheep manure is sacked so wet that it will "heat" and rot the sack in a short time. "H. Q." Brand is properly cured and will stay in the sacks for six months or more. We have it packed in "paper-lined" (2 bushel, 66 lbs.), printed burlap bags. Perfectly dry and clean to handle.

Prices: Per sack, \$1.25; 3 sks., \$3.50; 5 sks., \$5.50; 10 sks., \$10.50; 15 sks. or more, \$1.00 per sack. Small lots—2 lbs., 15c; 5 lbs., 25c; 30 lbs., \$1.00; postage extra if wanted by mail.

LIME—PULVERIZED

Lime is an indirect soil improver and a very valuable conditioner, and releases the plant foods. Use 1 to 2 tons per acre on plowed fields. For garden or lawn about 2 lbs. per 100 sq. feet.

HYDRATED LIME.—Put through a process that makes it fine and light. Quick in action, rich in calcium. Excellent for moss in lawns and general garden and farm lands.

Prices: 5 lbs. 20c; 10 lbs. 25c; 50 lbs. \$1.00; 100 lbs. \$1.75. Write for quantity price.

SULPHATE OF POTASH

Very rich in potash. For root and grain crops —125 lbs. per acre. Price, 100 lbs. \$4.00. Quantity price, write.

FERTILIZERS—Continued

Fertilizer prices on this page subject to market changes. Write for quantity price

NITRATE OF SODA

It is very quick in action, stimulating rapid growth. Being quickly soluble, it should not be applied until spring on garden truck.

Prices: Lb. 10c; 5 to 10 lbs., @ 7c; 15 to 25 lbs. @ 6a lb.; 100 lbs., \$3.75; write for quantity price.

SUPERPHOSPHATE

This is what is known as acid phosphate, being phosphate rock that has been treated or processed, to make the phosphoric acid available. Has become very popular among grain and fruit growers. Use at the rate of 800 lbs. and up per acre.

Prices: 100-lb. sks. \$2; 5 to 10 sk. lots at \$1.75. Ton price, write.

LAND PLASTER

(Gypsum).—An indirect fertilizer as it releases plant food and changes soil conditions. Used largely on grass and clover crops.

Prices: 100 lbs., \$1.00; write for quantity price.

SULPHATE OF AMMONIA

Strong in nitrogen. Will stimulate growth almost immediately.

Prices: Lb. 10c; 5 lbs. 30c; 25 lbs. \$1.10; 100 lbs. \$3.50.

VIGORO

A complete plant food, a product of Swift & Co., and highly advertised as an all round fertilizer.

Prices: 5 lbs. 60c; 25 lbs. \$2.00; 50 lbs. \$3.75; 100 lbs., \$6.00. Add postage if wanted by parcel post.

STIM-U-PLANT

Stim-U-Plant is an odorless, highly concentrated plant food, in tablet form

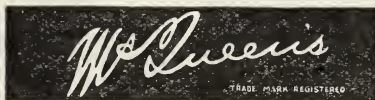
Simply insert tablets in soil near plants, or dissolve in water at the rate of four tablets to the gallon and apply as liquid manure. Complete directions with every package.

Order Stim-U-Plant tablets with your seed and plant order. PRICE POSTPAID; trial size, 15c; small size, 25c; 100 tablets, 75c; 1,000 tablets, \$3.50.

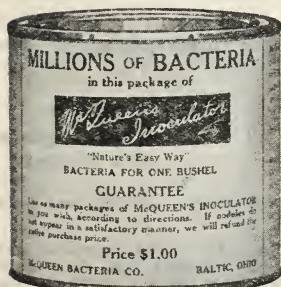
MURIATE OF POTASH

This fertilizer is especially valuable to fruit trees and berries. Price, 100 lbs. \$3.00; write for quantity price.

THE REAL IMPROVEMENT IN INOCULATION



INOCULATOR



Modern farmers demand modern methods of farming and agree that all legume seed should be inoculated. Good inoculation puts nodules on the roots of such plants as alfalfa, clover, peas, beans, soybeans and vetches. Nodules on the roots gather nitrogen from the air, that is, fertilizer at low cost.

MCQUEEN'S INOCULATOR is the only nitrogen-fixing bacterial culture that is ABSOLUTELY GUARANTEED to give satisfactory results, or your money back (read guarantee on every package). This guarantee is your best protection—you are the judge. Use McQueen's with confidence, as thousands of others have done for many years.

MCQUEEN'S INOCULATOR produces nodules; thus increases the crop—improves the quality—makes the soil a richer and better soil for crops that follow.

It's easy to use MCQUEEN'S—Apply it wet or dry—simplicity itself—takes only a few minutes' time to apply to seed. It is quality merchandise. Large volume of sales permits the following:

REDUCED POSTPAID PRICES

Always State on Order the No. or Seed You Want to Treat

FOR SMALL SEEDS

No. 1 for Alfalfa and Sweet Clover.

No. 2 for Red Alsike and White Clover.

½-bu. size (30-lb. seed)\$.50

1-bu. size (60-lb. seed) 1.00

2½-bu. size (150 lb. seed) 1.75

GARDEN SIZE, combination culture, for PEAS, BEANS and SWEET PEAS in 2 sizes. PACKET size 20c HALF-BUSHEL size 50c.

Be sure to include McQueen's Inoculator with all your Legumes Seed Orders.

FOR LARGE SEEDS

No. 3 for Vetches, Field and Garden Peas.

No. 4 for Field and Garden Beans.

1-bu. size (60 lb. seed)\$.50

2-bu. size (120 lb. seed) 1.00

5-bu. size (300 lb. seed) 1.75

INCREASE THE FERTILITY OF YOUR SOIL BY USING MCQUEEN'S INOCULATOR. DESCRIPTIVE LEAFLETS ON REQUEST.



**SEMESAN
CERESAN
SEMESAN JR.
SEMESAN BEL.**

THE PREMIER SEED DISINFECTANTS

**Controls Seed-Borne Diseases
Stimulates Germination
Produce Sturdier Plants
Increases Crop Yields
Improves Quality
Makes Money for Growers**



SEMESAN JR.

SEMESAN.—This modern disinfectant can be applied in either the liquid or convenient dust form to prevent or control effectively a most diversified variety of parasitic disease and fungoid growths borne by **VEGETABLE and FLOWER SEEDS, ROOTS, BULBS, GRAFTS and SOILS.** Semesan is harmless to seed and plant life but extremely poisonous to disease and fungous organisms. Very effective in preventing "damping off" of young plants and for "hard rot" and "scab" on *Gladiolus* bulbs. **PRICES.**—2 oz. 50c; 1 lb. \$2.75; 5 lbs., \$13.00.

For Seed Corn.—Is especially effective in controlling seed-borne infections of ear, root or stalks, without harming the seed embryo in the least. Its use protects the seed from rotting in the ground and makes possible earlier planting. Improved germination, control of certain diseases, increased yields, at a cost of less than 3c an acre. **PRICES.**—4 oz. 50c; 1 lb. \$1.75; 5 lbs. \$8.00; 25 lbs. \$31.25.

CERESAN

For Grain Seeds.—Has proven effective in controlling seed-borne diseases as bunt or stinking smut of wheat; stripe disease of barley; loose and covered smuts of barley and oats and covered kernel smut of sorghum. It is the only dust treatment which has successfully controlled these destructive grain diseases. Ceresan does not injure the seed nor the grain drill. Only 2 oz. of Ceresan required per bushel of wheat, rye or sorghum, and 3 oz. for barley and oats. Easy to apply, economical to use. **Prices.**—8 oz. 50c; 1 lb. 75c; 5 lbs., \$3.00.

SEMESAN BEL—For Potatoes

Simply mix, dip, drain, dry and your seed potatoes are ready for the planting. Semesan Bel may be used on either whole or cut seed pieces. Effectively controls such seed-borne disease organisms as scab, rhizoctonia and black-leg, thereby increasing the production of larger, better potatoes of highest quality. One pound treats 16 to 20 bushels of seed. **PRICES.**—4 oz. 50c; 1 lb. \$1.75; 5 lbs. \$8.00; 25 lbs. \$31.25.

SESESAN AND NU-GREEN

For brown patch in lawns. Ask for pamphlet giving full information and directions for using. **Prices.**—3 oz. tin, 50c; 1 lb., \$2.00; 5 lbs., \$9.00

FOR THE HOME GARDENER.—A simple and easy method of using Semesan in a small way is to open the seed packet, put in a little Semesan powder, fold over the end of the packet and shake it. Then sow right out of the packet. The powder that does not adhere to the seed will drop in the seed drill and give further protection.

"Du Bay" Brand Seed Disinfectants is the result of incorporation of the Bayer and Dupont Companies. **TREAT ALL SEEDS BEFORE PLANTING WITH DU BAY DISINFECTANTS.** Free descriptive and instructive booklet on request.

Imported
Granulated

Peat Moss

A Soil Conditioner
not a fertilizer

Granulated Peat Moss or Mull is a brown colored virgin soil, formed years ago by the growth and decay of mosses, aquatic plants, decomposed vegetable matter taken from the bottom of drained fresh water lakes. It is dried and packed under pressure into burlap wrapped bales about 3½ feet long and 2 feet square, weighing about 175 pounds. It being shipped to America from Germany and Holland in car load, yes, even boat load lots. It's a product nurserymen, horticulturists, florists and gardeners have wanted for years. It is a moisture retaining humus; an important aid in saving soil fertility. Adds humus to the soil, making the ground more pliable and improves the general texture and condition. Conserves moisture in light,

sandy soil; contributes effective drainage and lightens heavy soil.

Used in landscape work, lawns, vegetable gardens, flower beds and in potting soil, as a mulch over seeds or plants. It is really a wonderful factor in many ways. In all garden books and magazines, especially of English origin, you read about the great value of Peat.

Note—There is quite a difference in quality and price. We offer only the best brand of fine grade.

Prices: Fine ground for garden and lawn Original Bale, \$3.00. 2-bu. sacks, \$1.00. 5 to 10 lbs. at 8c lb., postage extra.

THE GARDEN GUIDE—Latest Edition. A complete handbook for the amateur gardener. Fifth Edition, revised up to date. 388 pages and over 275 teaching illustrations, with beautiful cover in four colors. Garden Guide has wonderful chapters devoted to the Vegetable, Flower and Fruit Gardens. It tells you how to prune, propagate plants, construct hotbeds, how to spray, etc. Covers every step from spading the ground to preserving the harvest. Price, cloth bound, \$1.50; postpaid, \$1.65. Paper bound \$1.00; postpaid, \$1.10.

LAWN GRASS SEED

Though we offer, separately, seed of many of the grasses suitable for the lawn, we consider as very erroneous the somewhat prevalent idea that any single variety of grass seed is preferable or equal to a mixture.

R. R.'s EVERGREEN LAWN GRASS

To obtain a good Lawn Grass Mixture, it is necessary that the best possible seed of fine grasses be used in the combination, embracing such varieties as are of neat, close growth, extreme hardness, and adapted to produce a quick, permanent sod. Judicious selection of seed, knowledge of the habits, vigor, quality and hardness of varieties used in the mixture can only be gained by thorough and practical tests under different climatic and soil conditions. After many years' experience, we offer our pure, clean Evergreen Lawn Grass Seed Mixture, composed of a thoroughly balanced combination of various native and foreign fine-leaved, deep-rooting grasses of interweaving habit, that will flourish under varied soil and climatic conditions, and which may be depended upon to produce a beautiful, compact, evergreen sod that will resist tramping and hard usage, and at the same time present that handsome, velvety appearance so much desired.

R. R. EVERGREEN LAWN GRASS.—Recognized by expert gardeners as the "highest quality." Portland's finest lawns have been grown from this mixture. PRICE, 60c per lb. Add postage by mail.

FAIR-GREEN LAWN MIXTURE.—This is a good mixture that will come quick and give a green covering. Better than most other low priced lawn mixtures. Price: 40c lb.; 10 lbs. \$3.50, postage extra.

SHADY LAWN MIXTURE.—Especially for shady places. 75c lb., postage extra.

Fertilize the Lawn Every Fall and Spring.

FEED THE LAWN—Do not starve the grass if you want it to look green and velvety; use "Marvel" and H. Q. Sheep as per directions. See pages 37 and 38.

ALFALFA AND CLOVER SEEDS

Single pound prices on Grass Seed are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and SUBJECT TO MARKET CHANGE. For amount of seed to sow per acre, see table inside back cover.

ALFALFA

Alfalfa seed should be sown in the spring, after danger from freezing the young plants is over, or in the fall, early enough to give it a good stand before frost. The acclimated seed we offer can be depended upon to give splendid satisfaction.

CHOICE ALFALFA.—Price: 10 lbs., \$3.50; 100 lbs., write. Per lb., postpaid, 45c.

DRY LAND ALFALFA.—For high, dry, hot land, where irrigation is impossible.

Price: 10 lbs. \$3.50; 50 to 100 lbs., write. Per lb., postpaid, 45c.

GRIMM ALFALFA.—This new variety is very hardy and will stand much more tramping and root injury. In many Western sections it is out-yielding the common variety and proving much more profitable. It is a little earlier and will do well in most all soils except undrained meadows. Not affected by extreme heat or cold, and does better in a wet climate than any other alfalfa. We offer the genuine true Grimm seed.

Prices: 1 lb., postpaid, 60c; 10 to 20 lbs. at 50c lb; 100-lb. prices on request.

RED CLOVER

Hardy, and succeeds well on any good soil. The most popular variety.

Per lb., postpaid, 45c; write for prices.

ALSIKE CLOVER

Valued highly for sowing with other grasses. Excellent for hay and pasture; valuable for bees; resists both drought and excessive moisture.

Per lb., postpaid, 45c. Write for prices.

WHITE CLOVER

Used largely in lawns and permanent pasture mixtures. Accommodates itself to a great variety of soils.

Choice Seed, 10 lbs. \$4.50; 100 lbs. write. Per lb., postpaid, 70c.

FOR LAWNS Always buy our "H. Q." Fancy Seed, which is the purest high quality seed obtainable, and the true very dwarf, hardy variety.

"H. Q." Fancy Seed, 10 lbs. \$6.50; per lb. postpaid, 75c.

LADINO CLOVER.—A giant white clover, perennial, grows 8 to 12 inches high. Ladino clover makes especially vigorous growth on the lower, medium heavy types of soils in western Oregon, under irrigation or natural moisture during growing season. Grown for hay, pasture and seed. Will carry twice as much stock per acre as blue grass. Three cuttings can ordinarily be made per year. Sow 4 to 6 lbs. per acre. 1 lb. \$1.25; 10 lbs. \$11.50, postpaid.

SWEET CLOVER (Bi-annual)

Melilotus (Alba).—Excellent for pasture, hay or as a fertilizer to plow under to improve the soil.

Grows luxuriantly on good soils, but it will also grow and thrive on thin, sandy soil, hardpan, gumbo, and clay; especially good on alkali land.

Sweet clover lives two years. It makes large, rapid growth the first season and can be cut for hay or pastured the last half of the summer. The second year it blooms, bears seeds and dies. Will make two crops of hay or a crop of hay and one of seed the second year.

Sown very early in the spring. It does well sown either alone or with a light nurse crop of grain. Use 15 to 20 pounds of seed per acre.

Prices: 10 lbs. \$1.90; 50 to 100 lbs. at 16c; per lb., postpaid, 35c.

"Highest
Quality"

GRASS SEEDS

"Highest
Quality"

Only one grade priced, the best, choice, clean seed. Write for prices in quantity.

Single pound prices on Grass and Clover Seeds are prepaid. Prices per ten, fifty and one hundred pounds are not prepaid and are subject to market changes. For reference tables amount to sow per acre, see inside back cover.

You Will Always Get Your Money's Worth

Prices on Grass and Field Seeds change occasionally, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity wanted, or order what you want at catalog prices, and we guarantee that we will give you full value for the money sent, whether the price at the time you order be higher or lower.

KENTUCKY BLUE

One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year.

Choice, 100 lbs., write. Per lb., postpaid, 50c.

FOR LAWNS.—Blue Grass is used very extensively for lawns and is found in all good lawn grass mixtures.

Our H. Q. (highest quality) Extra Fancy seed is unexcelled for weight and purity. Few dealers handle this high grade re-cleaned seed on account of its cost. This seed, straight or mixed with Fancy White Clover, is excellent for lawns.

H. Q. Extra Fancy, per lb., postpaid, 65c; 100 lbs., write.

ENGLISH RYE GRASS

A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. It grows very rapidly and makes a good showing quicker than most grasses.

10 lbs. \$1.30; 50 to 100 lbs. @ 10c lb.; per lb., postpaid, 30c.

ITALIAN RYE

A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for meadows or permanent pastures; thrives best on soils that are slightly moist; makes fine hay.

Imported Seed, 10 lbs. \$1.40; 50 to 100 lbs. @ 10c; per lb., postpaid, 30c.

RED TOP

Of great value for mixing with hay or permanent pasture grasses; will succeed in nearly any soil, but thrives best in a rich, moist soil; makes a fine bottom growth, rendering it invaluable to be sown with timothy, orchard or alsike clover.

Fancy Hulled Solid Seed, 10 lbs. \$3.80; 100 lbs., write; per lb., postpaid, 45c.

For Lawns.—H. Q. Extra Fancy, 10 lbs. \$4.80; 100 lbs., write; per lb., postpaid, 60c.

ORCHARD

Of the greatest value in permanent pasture mixtures; thrives best in moist, shady places, but will withstand drought exceedingly well. Will do well under trees, or shady places. Valued for hay crop, as it is very nutritious if cut early.

100 lbs., write; per lb., postpaid, 50c.

TIMOTHY

As a hay crop, timothy is unsurpassed by any other grass. Thrives on ordinary soil, but succeeds best in a moist loam.

100 lbs., write; per lb., postpaid, 30c.

SPECIAL PASTURE MIXTURES

MIXTURE FOR BURNED-OVER LAND.—In grading and cleaning grasses and clovers we frequently find combinations that are difficult of preparation and while the seeds are often of excellent germination and quality, they cannot profitably be separated and cleaned, so we blend them to produce pasture mixtures suitable for sowing on burns and logged-off land. In ordering state whether for high or low lands. Price per 100 lbs., \$15.00; special prices by the ton.

CREEPING BENT

Very desirable for either lawns or putting greens on account of the fine, firm and enduring turf it produces. Used very extensively on our local golf courses. We offer highest quality pure seed.

OREGON GROWN.—True and pure, per lb., postpaid, \$1.60.

IMPORTED.—Per lb., postpaid, \$1.35.

Write for quantity prices.

CHEWING FESCUE

Recommended for lawns and golf links. It is a fine-leaved low-growing grass that forms a compact turf. Does well on all soils, even on dry sandy soils.

10 lbs. \$5.80; per lb., postpaid, 70c.

ROUGH STALK MEADOW

For shady places under trees or wood pasture.

Per lb., postpaid, 70c.

MESQUITE

It is usually sown on virgin soil, without cultivation, after the ground has been burned over.

Fancy hulled Seed, 100 lbs., write; per lb., postpaid, 40c.

BROMUS INERMIS

On account of its strong perennial character, and its unusual drought-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. Very heavy yielder. Write for prices.

SUDAN GRASS

Sudan Grass is strictly an annual and dies each year. This makes it fit admirably into any system of rotation. It is a tall, quick-growing grass, reaching a height of from 5 to 7 feet. The plant stools wonderfully and yields well.

It belongs to the sorghum family, but is more slender and grassy in manner of growth, earlier and harder; yields a good crop of first class hay or green feed two to four tons per acre and under irrigation as high as eight tons per acre.

SEEDING.—Plant late in the spring or during the summer as a catch crop. Yields best sown in drills 18 inches apart and given one cultivation. 10 lbs per acre. If sown broadcast and harrowed in, 25 lbs per acre.

Per lb., postpaid, 35c; 10 to 25 lbs. @ 22c, postage extra; 100 lbs., write.

OTHER GRASSES

Write for special prices, stating quantity wanted.

	Lb. Postpaid
SHEEP FESCUE, for pasture	50c
RED OR CREEPING FESCUE, greens.....	60c
POA TRIVIALS, best shady lawn grass.....	70c
TALL MEADOW OAT, for hay.....	40c

FIELD AND FARM SEEDS

Single pound prices are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and subject to market changes. See notes about prices top page 34.

ARTICHOKES

WHITE JERUSALEM

Planted and cultivated for the tuber, the same as potatoes. Of great value for feeding stock. They are the best and cheapest hog feed known. They are remarkable for great productiveness, over 25 tons have been raised on one acre. Easier to grow than potatoes. They need not be dug. If hogs are turned in on them they will easily root the tubers out. One acre will keep from 20 to 30 hogs in fine condition for several months. Excellent for fattening if fed with a grain or mash ration. Plant 400 lbs. per acre early in the spring.

By freight or express, 10 lbs. 50c; 50 lbs. \$2.00; 100 lbs. \$3.00. Per lb., prepaid, 20c; 4 lbs. 60c. Write for quantity prices.

BUCKWHEAT

SILVER HULL.—A very good and popular variety; grain is of a light gray color; has a thin husk; matures early, and yields heavily; a good milling variety.

Per lb., postpaid, 25c 10 lbs. \$1.50; 100 lbs., write.

JAPANESE.—Good yielder, ripens early; excellent for bees to work on, as it remains in bloom longer.

Per lb., postpaid, 25c; 10 lbs. \$1.50; 100 lbs., write.



Artichoke Tuber

CHEAT SEED

Cheat seed yields a good crop of hay. Sow in the fall or early spring, about 100 pounds per acre. 10 lbs. 60c; 100 lbs. \$3.00.

FIELD CORN FOR THE WEST

If you want to raise some good Field Corn, plant our Western grown Seed Corn. The strains we are offering you are acclimated and especially adapted to our short, cool summers. Eastern and Southern grown field corn seed is all right for green fodder, but of little value on this Coast, if you want the best corn for silo, or wish to raise matured, dry ears, for winter grain.

Routledge Pride of the West Field Corn

See Illustration from Photograph

Oregon grown; acclimated. A grand success in Oregon. We have been raising this variety for years, and by selecting the earliest ripening and best select ears, now have a strain that is unsurpassed for a large and profitable crop of large, well matured ears or for cutting for silo.

Routledge Pride of the West Field Corn is an early maturing variety, producing stalks from 6 to 8 and often 10 feet high, and large ears, 7 to 9 inches long. Cobs covered with 14 to 16 rows of deep yellow kernels. It is a heavy yielder. Our strain has been greatly improved in the last few years.

We claim this is the earliest and heaviest yielding strain of Yellow Dent corn grown in Oregon. Try it and be convinced.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50, postpaid; 100 lbs., write.

SWEET FODDER CORN

All varieties of sweet corn possess very much more "sugar" than any feed sort, and this being the most important constituent, it necessarily follows that the corn holding this in greatest quantity has the greatest net value. Drill $1\frac{1}{2}$ to 2 bushels to the acre.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50, postpaid; 100 lbs., write.



MINNESOTA NO. 13

Well and favorably known in many sections of the West.

Northern Grown.—Large pkt. 10c; lb. 20c; 10 lbs. \$1.25, postpaid; 100 lbs., write.

Seed Corn Treatment

USE SEMESAN JR.—Protects seeds against rotting, permits earlier planting, speeds and increases germination, controls seedling blight, invigorates seedling growth, produces sturdier plants, reduces root and stalk rots, decreases down corn, improves ear and fodder quality, increases crop yields. See page 32. Special booklet on request.

OUR OREGON GROWN ACCILMATED FIELD CORN WILL PLEASE YOU

BARLEY

H. Q. Beardless

A wonderful yielder, even on dry, sandy soil. Stands up well and not likely to lodge. Makes excellent hay for horses or stock, or a big crop of excellent grain. Get a start of real beardless.

Prices: Postpaid, 1 lb. 20c; 10 lbs. 75c; 100 lbs., write.

HANNCHEN BARLEY.—Earliest and best of the 2-rowed barleys. A sure and heavy cropper. Grain plump, thin hull and beards drop or break off readily.

By mail, postpaid, 1 lb. 25c; 10 lbs., 75c; 100 lbs., write.

WHITE HULLESS or BALD BARLEY.—An excellent beardless barley for stock feeding. Grain plump, heavy, and when threshed is hullless like wheat; a heavy cropper.

Prices: Postpaid, 1 lb. 25c; 5 lbs. 75c; 100 lbs., write.

SEED OATS

SHADELAND CLIMAX.—This grand oat belongs to the tree or branching class, and is a vigorous, healthy grower of strong stooping qualities. This is one of the heaviest yielding oats introduced to date. It does not produce much straw, but the yield of "thin hulled," plump, heavy grain, even on high, dry land, is amazing. For early spring planting, large yield and quick maturity, Climax is a winner. If you live west of the Cascade Mountains you can plant "CLIMAX" fall or spring, any time the ground is fit, but where the climate is severe, spring plantings are best.

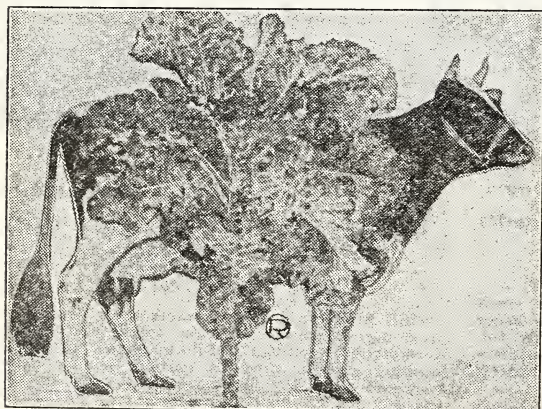
Prices: Per bu., \$1.25; 100 lbs., write. By mail, postpaid, 4 lbs. 50c. Quantity prices on request.

Write for quantity price, stating amount wanted.

GRAY WINTER.—Gray Winter Oats are very hardy, and are generally used for fall sowing, and are especially useful for sowing with vetch. The straw grows very long, is stiff and not liable to lodge. It is a head oat. The grain is dark gray, large and plump, and it yields well.

Prices: Per bu., \$1.00; 100 lbs., write.

WHITE SEED OATS.—Aside from the named varieties of fancy seed oats above, we can supply White Valley Oats at market price for fancy re-cleaned stock. Write for prices when ready to buy, stating quantity wanted or order at \$1.00 per bu. and we will ship full value more or less according to market.



Thousand-Headed Kale

This cut is from photo, and gives you a good idea of the size and plant when well grown. . .

Chicken Lettuce.—It is great for green feed.—See page 17.

Seed Wheat

For spring planting we offer **BLUE STEM, MARQUIS, EARLY BAART** and **Federation**. For fall, **White Winter, Holland** and **Red Russian**. Average prices for fancy seed, about \$2.25 per bushel.

Prices subject to market changes. Will send full value of money sent or quote prices on request for prompt acceptance.

Speltz—Emmer

Sow in the spring, the same as wheat, at the rate of two bushels per acre. Cut when the grain is past the middle stage of milk, when it will make splendid grain and lots of rich straw hay. Thresh like wheat, only not so closely. Can be fed whole, rolled like barley, or ground.

Prices: 10 lbs. 75c; 100 lbs., write; lb., postpaid, 20c; 3 lbs., 50c.

FIELD PEAS

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with oats and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are quite fattening. Sow, if alone, 2 bushels to an acre; if with oats, 80 lbs. peas and two bushels of oats.

WHITE CANADIAN.—Has been the leading and most popular kind for years; seed creamy white; a heavy cropper.

10 lbs. \$1.00; 100 lbs., write; per lb. 20c postpaid.

AUSTRIAN.—This variety is rapidly gaining in favor as a cover crop as well as for hay and forage. Can be sown in the fall in the south or in mild climates. Spring planting is also successful. A wonderful grower. Sow 80 lbs. peas with 40 lbs. oats. Prices: 10 lbs. \$1.25; 100 lbs., write; price per lb., postpaid, 35c.

Thousand-Headed Kale

JERSEY KALE—COW KALE

Recommended by agricultural colleges, granges and dairymen as one of the most valuable green forage plants for the Pacific Coast.

It grows rapidly and produces a mass of large, thick, curly green leaves, rich and succulent, which are eagerly eaten by stock and poultry. If planted early will produce valuable green feed during the dry summer months. Makes the most rapid growth if sown in the early spring, but locally it is extensively planted in summer and fall for winter feed. Will stand light freezing. Stalks can be cut off, or the larger lower leaves broken off, leaving the tops to grow. Under good cultivation plants will grow from 5 to 6 feet high. Sow 2 to 3 lbs. per acre, thinly in drills 2 to 4 feet apart and thin out. For late planting (July and August) it is better to have strong plants from earlier seeding and set out same as cabbage, 2 feet apart, in rows. Thin out later if plants attain extra large size.

EXTRA SELECT SEED

Pkt. 5c; oz. 15c; 4 oz. 25c; lb. 60c, postpaid.

Sunflower

MAMMOTH RUSSIAN.—The best variety to grow for the seed or silage. Planted in or around the poultry runs they make a good shade during the hot summer days and at the same time produce a valuable feed.

Cultivation same as corn. For silage sow 12 to 20 lbs. per acre; for seed purposes, give more space to mature heads, 5 lbs. per acre. Heavy, re-cleaned seed, high germination.

Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 40c; 10 lbs. \$3.00, postpaid. Write for quantity price.

Kaffir Corn

An excellent fodder plant. Seed small and almost round, valuable poultry and pigeon food. It does best sown thin in drills three feet apart.

10 lbs., \$1.00; per lb., postpaid, 25c

Rape, Dwarf Essex

We offer you true, pure seed. One of the best forage plants, on account of the large amount of green feed it will produce at a season of the year when everything else is dried up. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily. Rape will do well on almost any soil. Prepare the ground as for turnips, and sow any time from May till September; or plant it with grain. Sow, per acre, three pounds, in drills; or if broadcast, five pounds.

10 lbs., \$1.25; 100 lbs., write; per lb., postpaid, 25c

Seed Rye

When ready to buy Fall or Spring Rye Seed, write us for quotations on quantity wanted or send in your order and we will give full value.

10 lbs., 60c; 100 lbs., write; per lb., postpaid, 20c; 3 lbs. 50c

Sugar Cane or Sorghum

A valuable crop to grow for fodder or ensilage, as it furnishes an immense tonnage to the acre.

10 lbs., \$1.25; 100 lbs., write; per lb., postpaid, 25c

Vetches

NOTE.—All Vetch is scarce and higher than usual. Buy early if you need any.

OREGON VETCH (*Vicia Sativa*).—Oregon's greatest forage plant. Often called Fall Vetch. Grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon Coast. It furnishes an abundance of excellent feed, either green or dried. The seed is generally mixed with wheat, oats or rye, having a stiff straw to hold it up. Sown alone 85 pounds, or 60 pounds with a bushel of grain, per acre. Sow in the fall or early spring.

Prices: 10 lbs. \$1.00; 100 lbs., write; per lb., postpaid, 20c.

HUNGARIAN VETCH.—Becoming more popular each year on account of its strong, healthy growth. Its aphid resistance is probably the largest single factor toward making it a more generally grown vetch in Western Oregon.

It's a heavier yielder, both in hay and seed, than any other vetches grown here under similar conditions.

Prices: 10 lbs. \$1.00; 100 lbs., write; per lb., postpaid, 20c

HAIRY SAND OR WINTER (*Vicia Villosa*).—This variety thrives on poor, arid, sandy soils. It is sown in the fall or spring, mixed with rye, which serves to support the plants. Sow 20 pounds per acre.

Prices: 10 lbs. \$2.00; per lb., postpaid, 35c; 100 lbs., write.

Read About "Semesan"

Seeds, tubers and roots treated with Semesan has given wonderful crops. Read page 32 and send for booklets.

Single pound prices are prepaid but 10, 50 and 100-pound prices are NOT prepaid and subject to market changes. See notes, page 34. For full amount of seed to sow per acre see table, inside back cover.

Millets

Sow in April, May or June, 20 pounds for seed or 35 pounds for hay per acre. Must be sown early to mature in Willamette Valley.

EARLY FORTUNE.—This variety seems to do extra well here; try it. Heads large and loose, and seed is amber red and three times as large as the Common Golden. Makes good poultry feed.

10 lbs. \$1.25; 100 lbs., write; per lb., postpaid, 25c.

LIBERTY (German).—An improved variety yielding a larger crop of seed than the Common Millet; it is also taller than the Common Golden, and yields a heavier crop of hay. Seed small, golden yellow.

10 lbs., \$1.25; 100 lbs., write; per lb., postpaid, 25c.

For SEED POTATOES See Page 22



Vetches

THE WISE ONES

Will treat their Vetch seed with McQueen's Inoculator before sowing. There is no question about its VALUE. See page 31.

Get Rid of Rats

RAT SCENT.—A perfect rat poison all ready to use. Dogs and cats won't eat it but rats and mice will take it in preference to any other food. Price: 8-oz. can 35c.



Our flower seeds are grown by specialists and are unsurpassed. The following list contains a general assortment of the choicest and most popular and easiest grown flowers for conservatory, greenhouse or garden culture.

How to Raise Flowers Successfully from Seeds

The above is the title of a two-page leaflet we have issued for our customers. It tells **HOW**, **WHEN** and **WHERE** to plant. It is free to all. You will find it of great value.

ACROCLINIUM

Hardy annual, with everlasting flowers; good for cutting; flowers double and dry nicely if cut in bud; 1 foot; July to October.

Album.—Double, white Pkt. 10c; ¼-oz. 25c
Mixed.—Double all colors. Pkt. 10c; ¼-oz. 25c

AGERATUM

Half-hardy annuals, especially well adapted to edge large beds of geraniums, salvia, coleus or cannas, flower continuous through the summer; 15 inches.

DWARF LITTLE BLUE STAR.—New; one of the handsomest blue-flowered dwarf edging plants; grows 5 inches high, and is just covered with small, bright blue flowers. Pkt. 15c; ¼-oz., \$1.00

AGERATUM MEXICANUM.—(15 inches).

Blue.—Sky blue Pkt. 10c; ¼-oz. 50c
Album.—Pure white Pkt. 10c; ¼-oz. 50c
Finest Mixed.—All colors. Pkt. 10c; ¼-oz. 40c

ALYSSUM

Pretty little plants for beds, vases, baskets, edgings or rockwork, blooming profusely all summer; useful also for winter flowering inside. Very sweetly scented.

SWEET ALYSSUM.—Pure white; 6 inches; June to November. Pkt. 10c; oz. 50c

LITTLE GEM.—The dwarfiest and best for design bedding; grow only 3 to 4 inches high. Pkt. 10c; ¼ oz. 30c

LILAC QUEEN.—Dwarf, compact, lilac flowers. Pkt. 10c; ¼-oz. 35c

PROCUMBENS (Carpet of Snow).—Plants very spreading and only about 2 inches tall. Blooms are massed, completely hiding all foliage. Pkt. 15c; ¼-oz. 35c.

SAXATILE COMPACTUM (Gold Dust).—Hardy perennial; yellow flowers; April to June; height 9 to 12 inches. (Plants, page 60.) Pkt. 10c; ¼ oz. 40c

AMARANTHUS

CAUDATUS (Love-Lies-Bleeding).—Hardy annual; ornamental foliage plant; fine for bedding; green foliage with long drooping crimson racemes; 2 ft. Pkt. 10c; ¼-oz. 35c

CRUENTUS (Prince's Feather).—Dark red foliage and feathery flowers; 2 feet. Pkt. 10c; ¼-oz. 35c.

TRICOLOR (Joseph's Coat).—Ornamental foliage; red, yellow and green. Pkt. 10c; ¼-oz. 50c.

ARABIS

(Rock Cross)

ALPINA.—Hardy perennial; pure white flowers in close head; excellent for edging, rockwork or dry situations; 6 inches; April to June. Pkt. 10c; ¼-oz. 50c

ANEMONE

(Windflower)

ST. BRIGID.—Double and semi-double flowers in a wonderful array of colors. Perennial, 1 foot. Pkt. 15c

FRENCH MIXED (Caen).—Beautiful single and semi-double flowers in all colors. Pkt. 15c

ASPARAGUS

PLUMOSA NANUS.—A graceful pot plant for either house or conservatory (see illustration under Fern Plants); very finely cut, delicate lace-like foliage. Pkt. 25c; 100 seeds \$1.00

SPRENGERI.—Drooping foliage; adapted for hanging baskets or cutting. Pkt. 10c; 100 seeds 50c

ANTIRRHINUM

(Snapdragon)

Among the most popular bedding plants; the richness and diversity of their colors, their great freedom and protracted blossoming season giving them great value for garden color masses, as well as for cutting. Bloom from July to frost. Half-hardy perennials, 1½ to 3 feet. (See cut.) Plants, page 60.)

A. MAXIMUM

This wonderful new group of Antirrhinums far surpass anything yet introduced. The flowers are of magnificent size, closely placed on tall, graceful spikes, 3½ feet. We offer six beautiful colors, as follows:

Your Choice, 15c pkt.; ¼-oz. \$1.00.

COPPER KING.—Velvety scarlet, shaded copper.

DIAMOND.—Golden yellow, lilac throat.

OLD GOLD.—A rich deep golden color.

SILVER QUEEN.—Beautiful rosy pink.

SNOWFLAKE.—Pure white, yellow tube.

WALLFLOWER.—Brownish orange, copper red.

MAXIMUM MIXED.—A lovely mixture. Pkt. 10c ¼-oz. 75c

A. NANUM GRANDIFLORUM

Large flowers, medium height, about 2 feet.

Queen of the North.—Pure white. Pkt. 10c

Defiance.—Orange scarlet, white tube. Pkt. 10c

Firebrand.—Beautiful, bright scarlet. Pkt. 10c

Daphne.—Pearly pink. Pkt. 10c

Golden Queen.—Rich pure yellow. Pkt. 10c

Tall Mixed

Tall Giant, Finest Mixed.—Our seed of this is exceptionally fine; height 3½ feet. Pkt. 10c; ¼-oz. 35c

Dwarf Mixed

Semi-Dwarf.—Fine for bedding; 24 inches. Pkt. 10c ¼-oz. 35c
Finest Mixed.

AUBRIETA

(Rainbow Rock Cross)

A beautiful dwarf rock plant covered with sheets of bright flowers in spring and summer.

HYBRID MIXED.—Large flowering. Pkt. 15c

Have you a beautiful lawn? If not, see page 33 for Seed, and page 30 for Fertilizer.

ASTERS

One of the easiest and most satisfactory summer and fall flowers to grow. We take the utmost pains to select seeds from the most perfect flowers only, and wish to assure our patrons that our strains are the superiority of perfection.

IMPROVED GIANT CREGO

The most beautiful and desirable aster we have ever seen; very hardy, free-flowering and one of the best for general planting; the plant is a strong, healthy grower, and will produce 12 to 15 long-stemmed flowers of the most graceful and pleasing style (see cut). With ordinary care you can grow flowers measuring 5 to 6 inches across. Most of the handsome large aster blooms you see in the Portland flower stores are of this kind.

Pure White, Shell Pink, Rose Pink, Purple, Crimson, Lavender or Mixed. Pkt. 10c; ¼ oz. 50c.

SPECIAL.—One packet each of the six colors above only 50c.

CALIFORNIA GIANTS

A new variety of real merit. Of immense size and beauty, long, sturdy stems, non-lateral type. Resemble the "Crego" in type of flower, but larger and more robust.

White, Peach Blossom, Light Blue, Deep Rose, Dark Purple or Finest Mixed. Pkt. 15c; ½ oz. 60c

SUPERB AMERICAN BRANCHING

This superb strain, of American origin, is especially adapted to our climatic conditions, and unsurpassed. The plants form strong, branching bushes, 2 to 2½ feet high, bearing on long, strong stems their handsome large full flowers.

White, Shell Pink, Rose Pink, Lavender, Crimson, Azure Blue, Dark Blue, or Finest Mixed. Pkt. 10c; ¼ oz. 60c

GIANT COMET

A well known variety, but with us the "Improved Giant Crego" has taken its place.

FINEST MIXED.— Pkt. 10c; ¼ oz. 40c

HEART OF FRANCE

Heart of France opens red as the ruby, and retains its remarkable beauty to the very end. Flowers large and full. Plants of branching type and very robust habit. Stems long.

Pkt. 15c; ¼ oz. 50c

QUEEN OF THE MARKET

Most valuable for early cutting; the plants branch freely and produce a great many well-formed flowers nearly a month in advance of the later sorts.

Finest Mixed. Pkt. 10c; ¼ oz. 35c

ASTERS, FINE MIXED

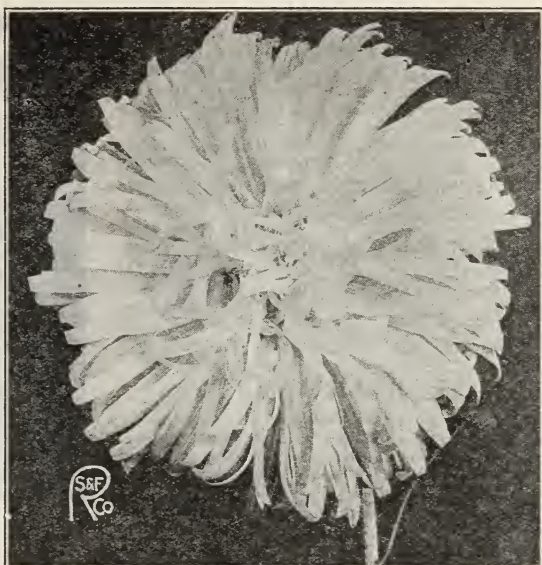
A mixture of choice kinds for all season blooms. Pkt. 10c; ¼-oz. 50c

ASTERS, HARDY PERENNIAL

(Michaelmas Daisies)

One of the showiest of our late-flowering perennials, giving a wealth of bloom during September and October. They grow freely in any soil. If sown early they will flower the first season. 3 to 4 feet. Excellent for cutting. Plants, page 61.

Large Flowering Varieties.—Seed saved from the choicest flowers only. Pkt. 10c; ½-oz. 75c



Improved Giant Crego Aster

Single Elegans

CHINA ASTER.—A hardy annual variety producing freely beautiful single flowers on long slender stems. Flowers about 2½ to 3 inches wide, and come in most all colors.

Elegans Single Mixed. Pkt. 10c; ¼-oz. 35c

THE SUNSHINE

IMPROVED ANEMONE (Flowered).—One of the most attractive novelties. The lovely 3 to 4-inch single flowers have twisted and quilled petals; the beautiful cushion center is of contrasting colors. Long stems, excellent for cutting (2½ feet). Be sure and try it.

Blue, Lilac, Pink or White. ¼ oz. \$1.00; Pkt. 25c
Sunshine Mixed, all colors. ½ oz. 75c; Pkt. 20c



New Sunshine Aster

ASTER PLANTS and all popular annual bedding plants supplied in season. Write for general price list. Crego Aster plants, 50c doz. postpaid. See page 60.

AQUILEGIA

(Columbine)

Hardy perennials; are most elegant plants and invaluable for cutting or as hardy border flowers; beautiful and graceful; June to September. 2 to 3 feet. (See cut.)

LONG SPURRED.—Superb mixture of all the most desirable shades. Pkt. 15c; ¼-oz. \$1.00

SINGLE, FINEST MIXED. Pkt. 10c; ¼-oz. 60c

CHRYSANTHA.—Golden yellow. Pkt. 15c; ¼-oz. \$1.00

COERULEA.—Violet blue and white. (Rocky Mountain Columbine.) Pkt. 15c; ¼-oz. 75c

NIVEA GRANDIFLORA.—A beautiful, large, pure white. Pkt. 10c; ¼-oz. 40c

FOR PERENNIAL PLANTS SEE PAGE 61.

BALSAM

(Lady Slipper)

Hardy annual, succeeding best in sunny situation, rich loam and moisture; very showy and of easy culture; 1½ feet; July to September.

PRIZE MIXTURE.—This strain will produce the most perfectly formed double flowers in the greatest variety of colors. Pkt. 10c; ¼-oz. 50c

BABY BREATH.—See Gypsophila, page 74

BROWHALLIA

An old favorite, hardy annual, profuse bloomer, covered with pretty single flowers all summer and fall; grows about 1 foot tall.

ELATA MIXED.—Blue and white mixed. Pkt. 10c

SPECIOSA MAJOR.—Ultramarine blue. Pkt. 25c

BALLOON VINE

(Love-in-a-Puff)

A rapidly growing annual climber; succeeds best in light soil and warm situations; flowers white; seed vessels look like miniature balloons; 8 to 10 feet. Pkt. 10c; ¼-oz. 25c.

BELLIS

(Double English Daisy)

Popular spring and summer flowering perennial; fine for borders; height 4 inches. Easily raised from seed. Blooming season from April to September.

DOUBLE MIXED. Pkt. 10c; ¼-oz. 50c

LONGFELLOW.—Double pink flowers. Pkt. 25c

SNOWBALL.—Free flowering; pure white. Pkt. 15c

GIANT ROSE, WHITE OR MIXED.—Mammoth in size; very rare. Give them rich ground. Pkt. 20c

BEAN

SCARLET RUNNER.—The well-known, rapid-growing annual climber, with bright red flowers, from July to September; height 3 feet.

Large Pkt. 10c; oz. 20c

CALLIOPSIS

Showy and beautiful free-flowering annuals, of the easiest culture, doing well in any sunny position, blooming all summer if cut often.

CROWN OF GOLD (Corenata Maxima).—A pure golden yellow. Pkt. 10c; ¼-oz. 35c.

GOLDEN WAVE.—Yellow, with crimson-brown around the eye. Pkt. 10c; ¼-oz. 25c

CRIMSON KING.—Rich, velvety crimson or garnet. Pkt. 10c; ¼ oz. 30c

ROUTLEDGE PRIZE MIXTURE.—Showy new shades in all varieties. Pkt. 10c; ¼-oz. 50c.

Perennial Flowers are rapidly gaining in favor. They are lasting and flower each year. You gain 1 year by buying our field-grown plants. See pages 61 to 65.



Aquilegia—Long Spurred

CALENDULA

(Pot Marigold)

Hardy annual; one of the most desirable garden flowers. The flowers are freely produced on long stalks; large, with flat, spreading rays; very showy; flowers the entire season; 12 to 18 inches. Excellent for cutting, beds or borders.

DOUBLE, FINEST MIXED.— Pkt. 10c; ¼-oz. 25c

LEMON QUEEN.—A select strain, large double flowers, sunflower yellow. Pkt. 10c; ¼-oz. 25c

ORANGE KING.—Grandiflora.—An excellent strain, large double flowers, rich dark orange. Pkt. 10c; ¼-oz. 35c

CANARY BIRD VINE

A rapid-growing summer-climbing annual, 10 to 15 feet; it will cover trellis work in the most graceful manner, producing hundreds of pretty winged, bright yellow flowers. Pkt. 10c; ¼-oz. 35c

CAMPANULA

(Bellflower)

PERSICIFOLIA (Peach Bells).—Perennial; grows 2 to 3 feet high; pendulant single flowers. Blue or White or Mixed. Pkt. 10c; ¼-oz. 75c

CARPATICA (Carpathian Hare-Bell).—Especially good for edging or rockeries. (Plants, page 61.) Blue or White. Pkt. 10c; ¼-oz. 75c

CANTERBURY BELLS

(Campanula Medium)

Very ornamental garden plants of easiest culture; excellent for cutting; hardy perennial; 2½ feet high, producing upright, bell-shaped flowers of exquisite colors. (See plants, page 61.)

MEDIUM SINGLE WHITE, BLUE, ROSE or MIXED Pkt. 10c; ¼-oz. 45c

CALYCANTHEMA (Cup and Saucer Canterbury Bells).—Beautiful and popular variety.

Calycanthema.—Pink, Lilac, Blue or White. ...

Pkt. 15c; 2 for 25c; ¼-oz. 75c

Calycanthema, Mixed Colors. Pkt. 10c; ¼-oz. 60c

R. R.'S PRIZE MIXTURE.—A mixture which contains every color and kind of both single and double biennial and perennials.

Pkt. 10c; ¼-oz. 50c

CANNA

A beautiful, large-leaved, showy flowering plant. Seed must be soaked before planting and started in a hot-bed under glass. (For Canna Roots, see page 89.)

CROZY'S HYBRIDS. MIXED. Pkt. 10c oz. 50c

CANDYTUFT

(Iberis)

Very popular free-flowering annual, fine for beds or cutting; 1 foot. June to frost if sown early and late.

EMPRESS.—A large-flowered variety of purest white. Pkt. 10c; ¼-oz. 25c

PINK, CRIMSON OR LAVENDER.—Very desirable colors; your choice. Pkt. 10c; ¼-oz. 35c

FINEST MIXED.—All colors. Pkt. 10c; ¼-oz. 25c

DWARF WHITE LITTLE PRINCE.—Grows but 6 inches high and throws up strong trusses of pure white flowers; excellent for edging or bordering. Pkt. 10c; ¼-oz. 40c

SEMPERVIRENS.—Perennial; pure white flowers, evergreen foliage; blooms in June; fine for edging, borders and rockeries; 1 foot. Pkt. 15c; 1-16-oz. 35c

CARDINAL CLIMBER

A beautiful and brilliant climber. It is a strong and rapid grower, attaining a height of 25 feet with fiery red flowers from mid-summer to frost. Like all "Ipomoeas," it delights in a warm, sunny situation and good, rich soil. The seed should be soaked in water a few hours before sowing and not planted outside until about May 1. (Annual.)

Pkt. 15c; 2 Pkts. 25c; ¾-oz. 75c

CALCEOLARIA

Tender annual, a universal favorite for house culture; produces a mass of beautiful puffed, pouch-like flowers of brilliant self-colors and spotted. Our strain of Calceolaria is very fine.

HYBRID GRANDIFLORA.—Mixed. Pkt. 25c

CARNATION

Everyone loves Carnations. For started plants of the finest named varieties, see page 71.

MARGARET CARNATIONS.—The earliest to bloom and producing large, double, sweet-scented flowers; being half-hardy perennials.

Red or White. Pkt. 15c; ½-oz. \$1.00

Choice Mixed. Pkt. 10c; ¾-oz. 60c

CELOSIA CRISTATA

(Cockscomb)

Showy, half-hardy annuals of easy cultivation; 1 foot; large, brilliant, comb-like flower heads.

GLASGOW PRIZE.—Showy, dark crimson comb. Pkt. 10c; ¾-oz. 60c

FINEST MIXED.—Rich mixture of finest dwarf kinds. Pkt. 10c; ¾-oz. 40c

Celosia Plumosa
(Feathered Cockscomb)

The plant grows 2 to 3 feet, is of handsome pyramidal form, of easy culture. Half-hardy annual.

THOMPSONI MAGNIFICA.—The most perfect feathered variety. July to November.

Golden Plume Pkt. 10c

Crimson Plume Pkt. 10c

Finest Mixed Pkt. 10c; ¾-oz. 60c

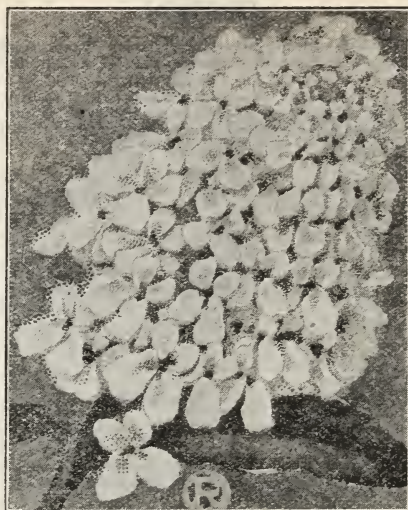
CHRYSANTHEMUM

These are very showy flowers of easiest cultivation, July to frost; height 2 feet.

SINGLE ANNUAL, MIXED. Pkt. 10c; ¼-oz. 50c

DOUBLE ANNUAL, MIXED. Pkt. 10c; ¾-oz. 25c

For Perennial Chrysanthemum plants see page 61



Candy Tuft—Empress

CENTAUREA

(Bachelor's Button—Cornflower)

Very popular annuals; will grow in the poorest of soil, either on seashore or mountains; seed can be sown either in fall or spring; sandy soil preferable; height 2½ feet.

FINEST SINGLE MIXED. Pkt. 10c; ¼-oz. 25c

CENTAUREA CYANUS fl. pl. (Double Bachelor's Button).—Beautiful large double flowers.

Double Blue Pkt. 10c; ¼-oz. 50c

Double Mixed Pkt. 10c; ¼-oz. 35c

CENTAUREA IMPERIALIS (Giant Cornflower).—

Mixed Colors Pkt. 10c; ½-oz. 35c

Marguerite.—White Pkt. 10c; ½-oz. 40c

MOSCHATUS (Sweet Sultan).—Hardy annual, with showy flowers; 1½ feet; June to September.

Finest Mixed Pkt. 10c; ¾-oz. 35c

White Leaved Centaurea

(Dusty Millers)

These are grown for foliage only; half-hardy annuals; leaves are silver-coated.

CANDISSIMA.—Thick, white, upright leaves; 1 foot. Pkt. 10c; ¾-oz. 50c

GYMNOCAPA.—Fine, fern-like leaves, very graceful and showy; 1½ feet. Pkt. 10c; ¾-oz. 35c

CERASTIUM

(Snow in Summer)

TOMENTOSUM.—A very pretty dwarf white-leaved edging or rock plant, bearing small white flowers.

Hardy, perennial. Pkt. 15c

CINERARIA

(Hybrid Grandiflora)

We pride ourselves in offering the choicest strain of this gorgeous flower; grand, large blooms in umbel spikes are borne way above the foliage; colors and markings are superb; 1½ feet; tender annual; start under glass, pot and keep inside

Pkt. 35c

We have Annual Flowering Plants in any quantity during April, May and June. The average price is 50c doz. postpaid. See page 60.

COSMOS

Beautiful autumn-blooming plants. They produce thousands of beautiful flowers, furnishing an abundance of cut blooms for autumn decorations. Can be sown in spring in the open ground, when danger of frost is past, or if wanted early the seed should be started under cover and afterwards transplanted. Set plants not less than 18 inches apart.

NOTE.—Too much fertilizer and water will make all foliage and few flowers. (Plants, 60c per doz., postpaid, in May.)

Double Crested Extra Early

A new Cosmos of Merit. "Double Crested" is unique and exceedingly pretty. Flowers are of good size, with full double centers, surrounded by a row of graceful ray petals. Pink Beauty, Crimson King or White Queen or Mixed.

Pkt. 15c; 3 for 35c; ¼-oz. \$1.00

MAMMOTH EARLY FLOWERING.—"Early Mammoth" will give you a profusion of very large, graceful, long-stemmed flowers if planted early. Early White, Pink, Crimson or Mixed.

Pkt. 10c; ¼-oz. 35c

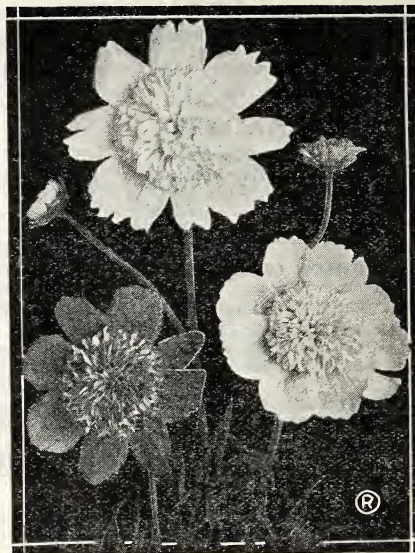
GIANT PERFECTION.—Very large and perfect flowers often 2 to 4 inches across; plants 5 to 6 feet high. Blooms late.

Giant Mixed.

Pkt. 10c; ¼-oz. 25c

LADY LENOX.—Giant flowers, free bloomer, flowers shell pink.

Pkt. 10c; ¼-oz. 25c



New Double Crested Cosmos

COLEUS

Beautiful foliage plants for house or garden. Easily raised if started early under glass. (Plants, page 60.)

HYBRIDA CHOICE MIXED.—Best strain. Pkt. 25c.

CHINESE WOOLFLOWER

A new annual flower. Very showy, odd and novel. The bunches of wool-like glowing crimson flowers are produced in profusion. Flowers come early and do not fade until hit by frost. Height 2 to 3 feet. Start early and transplant after danger of frost is over.

Pkt. 10c; ¼-oz. 75c

CLARKIA

This easily grown, hardy annual has been much improved in recent years, and the varieties offered below are now seen as cut flowers in most of the large cities. They do well either in sun or shade, growing 2 feet high, with leafy racemes of bright, pretty double flowers.

SEPARATE COLORS.—Double White, Crimson or Salmon Pink.

Pkt. 10c; ¼-oz. 40c

ELEGANS DOUBLE MIXED. Pkt. 10c; ¼-oz. 25c

COREOPSIS

(Lanceolata Grandiflora)

Hardy perennial, with large, showy bright yellow flowers produced in the greatest abundance from June till frost. As a cut flower they stand near the head among hardy plants having long stems and lasting in good condition a week or more. Easily grown from seed, flowering the first year, if sown early under glass. (PLANTS, PAGE 61.)

Pkt. 10c; ¼-oz. 35c

COBAEA SCANDENS

Our most popular and rapid climbing annual, flowering the first season. Pretty, bell-shaped flowers appear in great profusion during the fall months; foliage very graceful; 10 to 15 feet. Start seed under glass. (PLANTS FROM POTS IN MAY, 25c EACH.)

Pkt. 10c; ¼-oz. 35c

CYPRESS VINE

A fast-growing annual vine, with feathery dark-green foliage and star-like flowers, July to October; 20 feet. Plant early in light soil and warm location.

FINEST MIXED.

Pkt. 10c; ¼-oz. 35c

DAHLIA

This very popular flower can easily be raised from seed; started inside in March.

CACTUS MIXED.

Pkt. 25c

DOUBLE FINEST MIXED.

Pkt. 15c

SINGLE GIANT PERFECTION.

Pkt. 10c

DAHLIA BULBS.—See pages 70-72.

DIMORPHOTHECA

(African Daisies)

AURANTIACA.—Single Daisy-like blossoms, 2 inches in diameter, of a rich, orange; 12 to 15 inches.

Pkt. 10c; ¼-oz. 35c

AURANTIACA HYBRIDS.—These come in all colors; rare shades, rich and interesting.

Pkt. 10c; ¼-oz. 25c

DIANTHUS—PINKS

(Garden Pink)

All varieties listed below are very desirable. Sown out of doors in May, they flower early and continue throughout the entire summer; 1 foot.

CHINENSIS (Chinese Pink).—Large, double flowers of bright colors.

Pkt. 10c; ¼-oz. 50c

HEDDEWIGII (Japan Pink).—Beautiful rich colors. A very popular.

Pkt. 10c; ¼-oz. 50c

FIREBALL.—New, extra double, brilliant dark scarlet; very beautiful.

Pkt. 10c; ¼-oz. 50c

SNOWDRIFT (Lanceineatus).—Extra large, pure white, double, fringed flowers. Fine for border.

Pkt. 10c; ¼-oz. \$1.00

PRIZE MIXTURE.—Very rich mixture, all kinds. Unequalled.

Pkt. 10c; ¼-oz. 75c

SEMPERFLORENS (Perennial Hardy Everblooming Garden Pinks).—Very beautiful sweet-scented, double, semi-double and single flowers in great diversity of colors.

Pkt. 15c; ¼-oz. \$1.00

CULTURAL DIRECTIONS FREE.—Our 2-page leaflet gives full instructions on growing flowers from seed. Free on request. Read it and be successful.

DELPHINIUM

(Perennial Larkspur)

(See cut, page 62. Handsome, hardy perennial plants for the herbaceous border and shrubbery, producing a profusion of splendid spikes of flowers throughout the summer. The beautiful, graceful, long-stemmed flower spikes make handsome bouquets and last well when cut. If started early will bloom the first season from seed. (For large plants for quick effect see page 62.)

R. R.'s PRIZE MIXTURE.—Superb Gold Medal collection of choicest hybrids; new, rare and beautiful shades. Wonderful for cut flowers and should be planted generously.

Pkt. 15c; ¼-oz. 75c

BELLADONNA.—Very free and continuous bloomer; delicate and beautiful; clear light blue, large flowers, 4 feet.

Pkt. 25c; ¼-oz. \$1.25

BELLAMOSUM.—This is a rich, deep blue form of the popular light blue Belladonna, having the same free-blooming and other good qualities.

Pkt. 25c; ¼-oz. \$1.00

CHINESE (Blue Butterfly).—A distinct and neat variety growing about 18 inches high, with fine, feathery foliage, and producing freely spikes of large blossoms of intense gentian-blue.

Pkt. 15c; ¼-oz. 50c

New English Delphiniums

Wonderful Spikes of Rare Colored Giant Flowers

The seed we now offer our customers is not direct from England, but superior; it's Oregon grown, acclimated and high in germinating power; gathered from only the "cream" of over a hundred named kinds by our grower, who has specialized for years on Delphiniums, devoting most careful attention to trying out "various" prize-winning, world-famous varieties. Every plant that cannot stand a rigid test for vigorous, healthy growth, perfection and giant size and beauty of flower is pulled up and destroyed so as to leave only the choicest, rarest and most charming, from which our seed has been carefully hand picked and blended. We offer it as

ROUTLEDGE'S PRIZE WINNING ENGLISH

GIANTS MIXED. Pkt. 100 seeds, 50c; 3 pkts. \$1.25.



Didicium—Lace Flower



English Delphinium

DIDICIUM—"Lace Flower"

Hugelia Coerulea

A rare and lovely free-flowering half-hardy annual, growing about 18 inches high and branching nicely. Flowers light blue or lavender, very dainty and beautiful. The bloom is a cluster of tiny petaled flowers, giving the appearance of dainty lace. Florists grow it under glass for cut flowers. Plants set in the garden bloom from June until late fall. A new flower here, but a native of Australia.

Pkt. 15c; ¼-oz. \$1.00

DIGITALIS

(Foxglove.)

Hardy perennials; very desirable for effective massing or grouping; invaluable either in the hardy border, between shrubs or in solid beds in open or shady places; 3 to 5 feet. For strong field-grown plants, see page 61.

GLOXINAEFLORA.—A fine strain with handsome spotted gloxinia-like flowers.

White, Purple, Rose or Mixed. Pkt. 10c; ¼-oz. 35c

GRANDIFLORA YELLOW. Pkt. 10c; ¼-oz. 40c

MONTROSA (Mammoth Foxglove).—The tall spikes of flowers are surmounted by one monstrous bloom; all colors mixed. Pkt. 10c; ¼-oz. 40c

BEAUTY MIXTURE.—A grand mixture of all kinds, colors and shades. Pkt. 10c; ¼-oz. 50c

MORE HARDY FLOWERING SHRUBS should be planted in the West—they give no trouble, increase in size and grow more beautiful year by year. See pages 61 to 64.

DAISIES

SHASTA DAISY.—Very popular and desirable perennial; the large single white flowers are freely produced on long stems. Pkt. 10c; ¼-oz. 50c

DAISY PLANTS.—See page 63.



Eschscholtzia Ramona

ESCHSCHOLTZIA

(California Poppy)

One of the most popular garden annuals; 1 foot. Sow the seed where plants are to remain in the fall or early spring. It stands considerable cold and blooms early, profusely and continuously until July. Later sowings for late flowers.

RAMONA—New Frilled Type

Among the many fancy varieties of Eschscholtzia introduced, Ramona, a mutation from The Geisha, stands out as a distinct and very charming type in the frilled class. It is a single, but the frills give it the appearance of a semi-double. The color is a pale but glittering coppery gold with pink shadings and very pleasing to the eye. This is an unusually attractive novelty which is well fixed. See illustration.

Pkt. 20c; ¼-oz. 75c

NEW HYBRIDA GRANDIFLORA MIXTURE.—This is a wonderful mixture of all the new colors and novelties in the erect large flowering Eschscholtzia. You will find a large percentage of soft pink, scarlet, copper-red, cream, claret, royal purple and other rich and rare tones.

Pkt. 15c; 2 for 25c; ¼-oz. 40c

CALIFORNICA.—Bright yellow. Pkt. 10c. oz. 40c

ALBA.—Pure white Pkt. 10c; oz. 40c

CARMINE KING.—A beautiful rose carmine. Pkt. 10c; ¼-oz. 25c

GOLDEN WEST.—Very large bright yellow flowers with orange centers. Pkt. 10c; oz. 40c

FINEST MIXED.—All shades. Pkt. 10c; oz. 40c

ECHINOCYSTIS LOBATA

(Wild Cucumber)

The fastest-growing annual vine in existence; will grow 20 feet in six weeks; pretty foliage and inconspicuous white flowers; soak seed in water over night before planting in dry weather.

Pkt. 10c; oz. 35c

GERANIUM

ZONALE, MIXED.—A superb strain of the largest and finest varieties. Should be started indoors and finest varieties. Pkt. 25c

GYNERIUM

(Pampas Grass)

ARGENTEUM.—Hardy perennial; the famous Pampas Grass, with beautiful silvery plumes; 10 feet. Pkt. 10c

GEUM

MRS. BRADSHAW.—A beautiful and hardy perennial, bearing profusely showy double brilliant scarlet-crimson flowers all through the summer; a beautiful and popular flower for beds and borders; excellent for cut flowers. (For Plants, see page 62. Pkt. 15c; ¼-oz. 50c

LADY STRATHEDEN.—Same as above but golden yellow flowers. Pkt. 25c; ¼-oz. \$1.00

GOMPHRENA

(Globe Amaranth)

A dwarf hardy annual, with pretty clover-like beads of purple, white and red flowers; 2 feet; flowers everlasting.

FINEST MIXED. Pkt. 10c; ¼-oz. 25c

GYPSOPHILA

(Angel-Baby's Breath)

Pretty free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers. The annuals should be sown early in the spring, again in midsummer for a continuous supply.

ELEGANS ALBA GRANDIFLORA.—Hardy annual, easily grown from seed; flowers small, pure white; 2 feet; June. Pkt. 10c; ¼-oz. 25c

"PARIS MARKET."—GRANDIFLORA ALBA.—Improved variety of above with larger, pure white flowers; annual. Pkt. 10c; ¼-oz. 30c

ELEGANS ROSEA.—Hardy annual; flowers delicate pink. Pkt. 10c; ¼-oz. 35c

ELEGANS CARMINEA.—A deep carmine. Annual. Pkt. 10c; ¼-oz. 35c

MURALIS.—Hardy perennial; plants dwarf, about 6 inches; flowers shell pink; fine for borders or rock work. Pkt. 10c; ¼-oz. 25c

PANICULATA.—Hardy perennial; one of the finest for cutting; pure white flowers, very small, and borne in large, delicate sprays; June and July. Three feet. Pkt. 10c; ¼-oz. 25c

PANICULATA. FL. PL.—New, double-flowering. White. Pkt. 25c; 3 for 60c

(For strong roots of G. Paniculata for immediate effect, see age 62.)

GODETIA

(Satin Flower)

This showy, hardy annual deserves greater popularity. Attractive flowers of satiny texture, from white to all shades of pink and crimson. They grow rapidly and flower profusely in poor soil, of easy cultivation. Fine for seashore or mountain resorts; 1 foot; July to October.

DWARF WHITE, BRIGHT RED OR FINEST MIXED OR TALL DOUBLE MIXED. Pkt. 10c; ¼-oz. 25c

GOURDS

These are desirable in many places where an immense amount of vine is wanted quickly. Most sorts are good for 20 feet in a season.

CALABASH.—The famous pipe gourd, dipper shaped. Pkt. 10c; oz. 40c

EGG, HERCULES DIPPER, DISH CLOTH, PEAR OR MIXED.—All kinds. Pkt. 10c; ¼-oz. 15c

FEED YOUR PLANTS.—You must supply "feed," in other words, fertilizer, if you want the best results. Read about "H. Q." Sheep, and Marvel Q. A. Fertilizer, page 30. ..

HELIANTHUS

(Sunflower)

Hardy annual Sunflowers are indispensable for cutting and a bright display of yellow flowers.

CUCUMERIFOLIUS — STELLA (Improved Miniature Sunflower).—Pretty single flowers of the purest golden yellow, with black disc. Fine for cutting. 3 feet. Pkt. 10c; ¼-oz. 35c

NEW MINIATURE MIXED.—Many have curiously twisted petals. The prevailing colors are pale yellow, golden yellow and creamy white, and all are beautiful; for cutting. Pkt. 10c; ¼-oz. 35c

GLOBOSUS FISTULOSIS (Globe or Dahlia Sunflower).—Flowers are large, double, very full in center and of a rich saffron color; 6 feet; annual. Pkt. 10c; ¼-oz. 25c



Gaillardia Portola

GAILLARDIA

(Blanket Flower)

Splendid, showy, free-flowering plants for beds or borders; excellent for cutting; the hardy perennial varieties; if sown early will bloom the first season, July to frost; 1½ feet. Field-grown plants, page 62.

GRANDIFLORA SUPERBA.—Hardy perennial, splendid mixed single varieties in crimson and gold. Pkt. 15c; ¼-oz. 40c

LORENZIANA.—Hardy annual; double flowers in red and yellow shades. Pkt. 10c; ¼-oz. 25c

PORTOLA GRANDIFLORA HYBRIDS.—This superb new strain of perennial Gaillardias give flowers of very large size, often 3 to 4 inches in diameter. The color ranges through shades of rich, bronzy red, shading of golden yellow. Flower stems strong and upright. Splendid new cut flower. Pkt. 20c; ½-oz. 75c

THE DAZZLER.—A giant in size. Flowers dark rich red with bright orange tips. Very attractive. Pkt. 25c

HELENIUM

Hardy perennials, bearing in profusion during summer and fall, beautiful flowers for display or cutting. Plants 25c each

AUTUMNALE SUPERBUM.—Massive spreading heads of deep golden yellow flowers; 5 feet. Pkt. 10c

RIVERTON BEAUTY.—Rich lemon-yellow with purplish black cone; 4 feet. Pkt. 10c

RIVERTON GEM.—Old gold changing to wallflower red. Admired by all; 4 feet. Pkt. 10c

HELICHRYSUM

(Straw Flower)

MONSTROSUM FL. PL.—One of the best of "Ever-lasting." Make a fine display in the garden. Especially grown to dry and use in baskets and vases through the winter. Hardy annual, 2½ feet.

FIREBALL, GOLDENBALL, SALMON QUEEN, SILVERBALL OR DOUBLE MIXED. Pkt. 10c; ½-oz. 35c

HELIOTROPE

Delightfully fragrant, half-hardy perennial; popular pot and garden bedding plant; also for cutting. **FINEST MIXED**. Pkt. 10c; ½-oz. 50c

PLANTS in May and June. See page 60

HUMULUS

(Japanese Hop)

Hardy annual climber; of rapid growth; attains a height of 12 feet.

JAPONICA VARIEGATA.—Foliage green and white; very pretty and effective; not affected with insects. Pkt. 10c; ½-oz. 35c

ENGLISH HOP ROOTS.—Pg. 81. Each 15c

HOLLYHOCK

One of the most majestic of hardy plants, and a clump or line in any garden gives an effect not attainable with any other plant. Plants page 62.

CHATER'S DOUBLE.—Our superb strain of this is the best that can be produced; seeds saved from the most double flowers.

WHITE, ROSE, CRIMSON, YELLOW, SALMON ROSE OR MIXED. Pkt. 10c; ¼-oz. 75c

NEWPORT PINK.—New. The finest pure pink variety. Pkt. 15c; ½-oz. 40c

ALLEGHENY.—Semi-double; mammoth flowers, having the edges of the petals finely fringed and lacinated; will bloom the first year if sown early. **CHOICEST MIXED**. Pkt. 10c; ¼-oz. 60c

NEW ANNUAL EVER-BLOOMING.—Seeds sown in the house in March will produce flowers in July on plants 4 feet high; however, the plants do not attain their perfection until their second year, when they grow 6 to 8 feet high, and flower continuously from June till frost.

SINGLE MIXED. Pkt. 10c; ½-oz. 50c

DOUBLE MIXED. Pkt. 15c; ½-oz. 75c

HUNNEMANNIA

FUMARIAEFOLIA (Giant Yellow Tulip Poppy).—Hardy annual; foliage fern-like; flowers tulip-shaped, golden yellow. Pkt. 10c; ½-oz. 35c

JOB'S TEARS

COIX LACHRYMAE.—Seeds are dried and used for beads. Annuals; 2 to 4 feet. Pkt. 10c; oz. 20c

KOCHIA

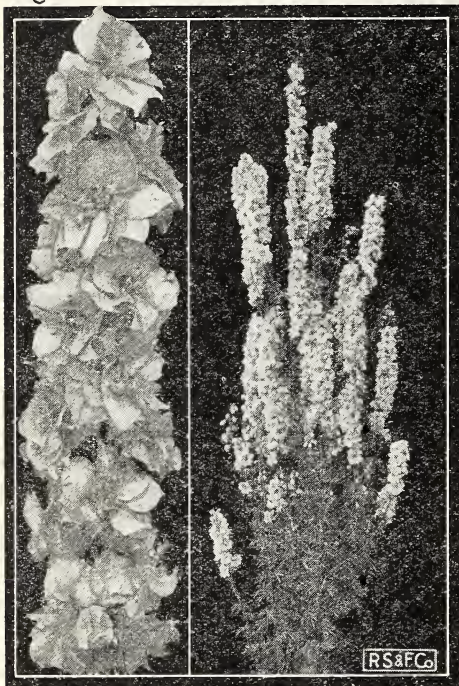
SUMMER CYPRESS OR BURNING BUSH.—Annual; forms dense bushes of upright plumage like foliage; during the summer they remain light green and in early fall they change to carmine and blood red; 2 feet; hedge or nice single specimens. Pkt. 10c; ½-oz. 35c

PERENNIAL FLOWERS are rapidly gaining in favor. **MORE** should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. See pages 60-64.

KUDZU VINE

(Pueraria Thumbergiana)

A twining vine of remarkably rapid growth, attaining a length of from 40 to 50 feet in one season from established roots; a hardy perennial, though the vine dies down every winter in the North. Foliage large and lobed; purple, pea-shaped flowers in clusters, borne late in the season. A fine vine for arbors, verandas, etc. Easily grown from seed. Pkt. 10c; ¼-oz.



New Larkspur—La France

LUPINUS

Ornamental, free-flowering, easily grown, with long, graceful, upright spikes of rich and variously colored pea-shaped flowers; valuable for mixed borders and beds.

ANNUAL TALL MIXED.—Valuable for cutting; 2 feet. Pkt. 10c; ¼-oz. 35c

POLYPHYLLUS MIXED.—Showy perennials, growing stout and erect; good for cutting, flowers in white, rose and blue colors; 3 feet; May and June. Pkt. 10c; ¼-oz. 35c

LATHYRUS LATIFOLIUS

PERENNIAL SWEET PEA.—Free flowering, hardy perennial climbers, bearing beautiful flowers all season.

WHITE or PINK. Pkt. 15c; ¼-oz. 75c
MIXED. Pkt. 10c; ¼-oz. 50c

LINUM

(Flowering Flax)

GRANDIFLORUM RUBRUM (Scarlet Flax).—One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers; hardy annual; 1 foot. Pkt. 10c; ¼-oz. 25c

Our 2-Page Leaflet, "HOW TO GROW FLOWERS FROM SEED," Free on Request.

LARKSPUR—Annual

Unsurpassed by any other hardy annual. Seed sown in the open ground in April or May will produce flowers from July to frost. Their free, graceful habit and lovely bright flowers are very effective for beds or borders. Charming cut flowers for decoration.

TALL "DOUBLE STOCK" FLOWERED.—The finest tall branching variety with splendid sprays of beautiful flowers; 3 feet.

WHITE, PINK, LUSTROUS CARMINE, SKY BLUE, DARK BLUE, BRIGHT ROSE or MIXED. All colors, Pkt. 10c; ¼-oz. 50c

La France is the most striking color of all and without an question the most outstanding novelty for this season. Is a most vigorous and tall grower, producing wonderful long stems of large-formed double flowers, of a pleasing shade of salmon-pink, a shade that will appeal to the most critical florist and flower lover. You will be more than pleased with this color. Pkt. 20c

EXQUISITE.—New, a beautiful soft pink. A charming new shade that is highly prized by florists.

Pkt. 15c; ¼-oz. 35c

TALL "HYACINTH" FLOWERED.—The flowers are very large, double, and come in the most beautiful colors. The tall, handsome spikes of flowers are produced early in the season. Excellent for bouquets.

FINEST MIXED. Pkt. 10c; ¼-oz. 40c

DOUBLE DWARF ROCKET.—1 foot; compact growing bush, splendid spikes of double flowers in all colors. Mixed. Pkt. 10c; ¼-oz. 40c

PERENNIAL LARKSPUR.—(See Delphinium, page 45; plants, page 62.)

LOBELIA

Lobelia Plants in April and May at 50c doz. post-paid.

ERINUS GRACILIS.—Trailing, excellent for vases, hanging baskets and window boxes. Bright blue flowers. Pkt. 10c; ¼-oz. 35c

SPECIOSA.—Trailing, true dark blue flowers, with dark foliage. Pkt. 10c; ¼-oz. 40c

HYBRIDA SAPPHIRE.—A beautiful trailing Lobelia; very large, deep sapphire blue flowers, with a large and clear white eye; very free flowering; extra long trailer. Pkt. 15c; ¼-oz. 75c

CRYSTAL PALACE COMPACTA.—Little dwarf bedding plant; dark blue flowers cover the whole plant during the entire season; very compact and used extensively in carpet bedding or edging; height 4 inches. Pkt. 10c; ¼-oz. 50c

WHITE GEM.—Compact little plants, covered with snow-white flowers. Pkt. 10c

LYCHNIS

CHALCEDONICA.—Hardy perennial producing bright scarlet flowers of maltese cross form, in medium size flat umbels, handsome for beds and borders. Of easy culture, blooming the first year if sown early. Very bright and showy; 2 to 3 feet. Pkt. 10c; ¼-oz. 30c

MIMULUS

MOSCHATUS (Muskplant).—A pretty trailing plant with small yellow flowers, giving forth a musk-like fragrance; fine for hanging baskets, etc. Annual. Pkt. 15c

MARVEL OF PERU

(Four o'Clock)

Hardy annual, flowering from July to October; brilliant colors; 3 feet.

FINEST MIXED. Pkt. 10c; oz. 35c

GLADIOLI BULBS make a beautiful display when in bloom and are of the easiest culture and really not expensive, as they multiply rapidly. See pages 69-70.

MARIGOLDS

The African and French Marigolds are old favorite free-flowering annuals of easy culture; both are extremely effective.

Plants.—Choice plants in May at 50c doz. post-paid.

TALL AFRICAN, DOUBLE.—(See cut.) Splendid for cutting and decoration; 3 feet.

ORANGE PRINCE.—Enormous double flowers of rich deep golden orange. Pkt. 10c; ¼-oz. 25c

LEMON QUEEN.—Extra large double flowers of a clear canary yellow. Pkt. 10c; ¼-oz. 25c

ELDORADO.—Double flowers of a large size in all shades of yellow. Pkt. 10c; ¼-oz. 40c

TALL AFRICAN DOUBLE MIXED.—All shades. Pkt. 10c ¼-oz. 35c

DWARF FRENCH, DOUBLE.—These form small, compact bushes about 12 inches high, covered with smaller but very rich colored flowers.

DWARF GOLDEN BALL.—Flowers ball-shaped, pure golden yellow. Pkt. 10c; ¼-oz. 30c

DWARF DARK BROWN.—Rich reddish-brown or mahogany; double. Pkt. 10c; ¼-oz. 35c

DWARF STRIPED.—Very double, mahogany red, striped with gold. Very attractive. Pkt. 10c; ¼-oz. 40c

DWARF FRENCH DOUBLE MIXED.—All shades in solid and striped colors. Pkt. 10c; ¼-oz. 35c

Dwarf French Single

GOLD STAR.—Single, rich yellow striped with maroon. Pkt. 10c; ¼-oz. 25c

LEGION OF HONOR.—Golden yellow marked with velvety brown. Single. Pkt. 10c; ¼-oz. 30c

TALL FRENCH DOUBLE MIXED.—2 feet. Pkt. 10c; ¼-oz. 25c

MYOSOTIS

(Forget-Me-Not)

Few spring flowers are more admired than the lovely Forget-Me-Nots, which are especially effective when grown in masses. Hardy perennials if given slight protection through the winter.

Seed may be sown any time from spring till mid-summer. The Alpestris and Dissitiflora come into bloom in April, and are largely used for bedding between plantings of Dutch flowering bulbs. The Palustris sorts do not bloom till May, but continue till fall. (Perennial plants, page 62.)

DISSITIFLORA.—Rich blue; early flowers in fine sprays; 6 inches Pkt. 15c; ¼-oz. \$1.50

ALPESTRIS VICTORIA.—Of bushy habit; bearing large, double, bright blue flowers; yellow eye; very fine; 6 inches. Pkt. 10c; ¼-oz. \$1.00

ALPESTRIS ROYAL BLUE.—Rich indigo blue; 9 inches. Pkt. 15c; ¼-oz. 50c

FINEST MIXED.—A mixture of blue, rose and white varieties. Pkt. 10c; ¼-oz. 40c

PALUSTRIS SEMPERFLORENS.—Perennial; flowers bright blue; blooms from early spring until autumn. Pkt. 15c; ¼-oz. \$1.00

NEMESIA

GRANDIFLORA COMPACTA TRIUMPH.—A very pretty, half-hardy, free-flowering annual; the plants grow about a foot high and the beautiful, dainty flowers are very varied in color, including rose, yellow, blue, orange, etc. An ideal bedding plant. Seed sown in the autumn makes beautiful pot plants for early spring blooming.

MIXED COLORS. Pkt. 10c; ¼-oz. 75c



Signata Pumila Marigold

New Dwarf Marigold

SIGNATA PUMILA.—A miniature marigold flowering, compact little plant, 6 to 8 inches high and completely covered with single flowers which are bright yellow with a brown stripe down the center of each petal. Very striking for edgings. Planted alone or with Lobelia for a contrast. (See cut.) Pkt. 15c; 2 for 25c

MORNING GLORY

(Ipomoea)

The tall varieties are popular, well known, rapid-growing climbers of the easiest cultivation; very fine for covering arbors, trellises, porches, etc.; give them rich soil and a warm situation. The Minor or Dwarf varieties flower very freely.

CONVOLVULUS MAJOR.—Tall, choice, single mixed; all colors. Pkt. 10c; oz. 35c

CONVOLVULUS MINOR.—Dwarf mixed. Very spreading; 12 inches. Pkt. 10c; oz. 35c

IMPERIAL JAPANESE FRINGED.—These have very large fringed flowers in a great variety of the most exquisite colorings; handsome foliage. Pkt. 10c; oz. 50c

CHOICE PRIZE MIXTURE.—This is a mixture of both American and Japanese varieties; very choice. Large Pkt. 10c; oz. 50c

(Note.—Soak the Japanese Morning Glory seed in warm water for 24 hours before planting.)

MIGNONETTE

(Reseda)

A universal favorite; very fragrant; no home garden is complete without Mignonette. It needs a cool soil only moderately rich; grows 8 to 15 inches high and is treated as a half-hardy annual.

GRANDIFLORA.—Large-flowering, sweet, fragrant, spikes of greenish yellow color. Pkt. 10c; oz. 35c

DEFIANCE.—Glant spikes; flowers abundant and very fragrant. Pkt. 10c; ¼-oz. 25c

GOLIATH RED.—Excellent for pots or garden; highly colored. Pkt. 10c; ¼-oz. 35c

WHITE PEARL.—New; the best white flower; very attractive. Pkt. 10c; ¼-oz. 35c

MOONFLOWER—Ipomoea

GRANDIFLORA ALBA.—Large, heart-shaped leaves and large, pure white flowers, which open only late in the evening. 10 feet. Pkt. 15c; ¼-oz. 25c

Our 2-Page Leaflet, "HOW TO GROW FLOWERS FROM SEEDS," Free on Request.

BEAUTIFUL LILIES.—You will find the most popular as well as new and rare varieties on pages 64 and 65. **PLANT MORE.**

NASTURTIUM—TALL OR CLIMBING

The most popular and most beautiful free-flowering annual climbing vines.

Your choice, Pkt. 10c; full collection, 8 kinds, 50c; per oz., any kind, 25c.

ASA GRAY.—Light amber, almost white.

BLACK PRINCE.—Velvety crimson, dark leaved.

FIREFLY.—Bright yellow, spotted cardinal red, calyx and spur ruby

GOLDEN QUEEN.—Sunflower yellow very fine.

PRIMROSE.—Creamy yellow, very pleasing.

PRINCESS VICTORIA LOUISE.—Cream white, scarlet spot.

REGINA.—Beautiful light salmon rose.

SPITFIRE.—Bright fiery scarlet.

ROUTLEDGE TALL PRIZE MIXTURE.—This is undoubtedly the finest mixture of tall nasturtiums offered anywhere; every shade is grown separately and then mixed; dark leaved.

Large Pkt. 15c; oz. 25c; ¼-lb. 60c

TALL CHOICE MIXED.—A very fine selection of beautiful varieties.

Large Pkt. 10c; oz. 15c; ¼-lb. 50c

IVY-LEAVED FINEST MIXED.—The ivy leaves borne on very slender stems, are of a dark metallic color, which forms a striking contrast to the beautiful flowers; an excellent variety for vases, hanging baskets, etc. Pkt. 10c; oz. 25c

VARIEGATED QUEENS.—A new strain of tall Nasturtiums having beautifully variegated leaves; green, white and yellow; flowers large and of many bright flowers. Pkt. 10c; oz. 25c

DWARF NASTURTIIUMS

These are of dwarf, compact, rounded growth and are especially desirable for planting as borders to flower-beds or along garden walks.

AURORA.—Terra cotta, reddish orange.

BEAUTY.—Yellow and scarlet, very pretty.

BRONZE.—Reddish golden bronze, rich.

CRYSTAL PALACE GEM.—Yellow, spotted maroon.

EMPRESS OF INDIA.—Dark scarlet, dark leaved.

GOLDEN KING.—Indian yellow, dark leaved.

VESUVIUS or SALMON QUEEN.—Salmon rose.

Price, all above Dwarf varieties, Pkt. 10c; Full Collection of 7 Pkts. 50c; per oz. 25c.

R. R.'s Dwarf Beauty Mixture

Composed of new and rare sorts; exceedingly brilliant and beautiful. A mixture of very lovely, true dwarf varieties.

Large Pkt. 15c; oz. 25c; ¼-lb. 60c

CHOICE DWARF MIXED.—All good varieties.

Large Pkt. 10c; oz. 20c; ¼-lb. 50c

NICOTIANA

One of the easiest annuals to raise and one of the most effective. The flowers are long tubed, star-shaped, and are produced in great profusion. The flowers open toward evening and emit a powerful perfume.

AFFINIS.—Delightfully sweet-scented, pure white flowers, blooming continually; 2 to 3 feet.

Pkt. 10c; ¼-oz. 25c

AFFINIS-HYBRIDA.—Splendid hybrids in blue, red and rose, etc., shades. Pkt. 10c; ¼-oz. 30c

SANDERAE.—Of elegant branching habit, and bearing on light, graceful stems great quantities of very beautiful rosy carmine flowers; all-summer valuable border plant; 3 feet

Pkt. 10c; ¼-oz. 30c



Nasturtium

NIGELLA

(Love in a Mist—Devil in the Bush)

A compact free-flowering plant with finely cut foliage and pretty feathery flowers; hardy annuals; blue and white; 1½ feet.

DOUBLE MIXED.

Pkt. 10c; ¼-oz. 15c

MISS JEKYLL.—A lovely variety with cornflower blue blossoms; splendid for cutting

Pkt. 10c; ¼-oz. 25c

PORTULACA

Low-growing or creeping half-hardy annual, 6 to 8 inches high. The cup-shaped blossoms very brilliant and of gorgeous colors. Foliage and stems are thick. Seed should be started under glass. These flowers love the sunshine and do best on rather dry ground.

SINGLE, FINEST MIXED.

Pkt. 10c; ¼-oz. 40c

DOUBLE, FINEST MIXED.

Pkt. 15c; ¼-oz. 75c

PLANTS in May.

Doz., postpaid, 50c

PENTSTEMON

(Beard Tongue)

The handsome, brilliant flowers are borne on long terminal spikes, much resembling Gloxinias. Perennial; will bloom the first season if sown early; 3 feet. All colors from yellow to red and purple. (Plants, see page 63.)

HYBRIDA MIXED.

Pkt. 10c; ¼-oz. 50c

PHLOX DRUMMONDI

We know of nothing which produces such a continuous supply of the most attractive flowers in a most wonderful range of colors; 1 foot. Plants in May, 60c doz.

DRUMMONDI GRANDIFLORA, MIXED.—A splendid mixture of all shades and colors.

Pkt. 10c; ¼ oz. 35c

SEPARATE COLORS.—White, Pink, Rose, Scarlet, Lilac, Primrose or Striped. Pkt. 10c; ¼-oz. 50c

DECUSSATA (Tall Perennial Phlox).—One of the finest perennials with its extremely large heads of the most magnificent colored flowers; June to September.

Pkt. 10c; ¼-oz. \$1.00

PERENNIAL PHLOX PLANTS on page 63.

PRIMULA

(Primrose)

The first two varieties named below are hardy, early-blooming garden plants, and the others beautiful winter-blooming house plants. Their various forms and blending of colors are exceedingly pleasing and effective. (Plants, page 69-75.)

POLYANTHUS (Veris Mixed).—Early blooming, dwarf growing plants, valuable for outdoor bedding and edging; 8 inches; perennial. Pkt. 15c

VULGARIS (Veris Aurea).—Yellow, common English Primrose; hardy garden variety; perennial; 8 inches. Pkt. 15c

OBCONICA GRANDIFLORA HYBRIDS.—A lovely, profuse bloomer, bearing beautiful clusters of single flowers, for pots only. (See plants, page 52-62.) Pkt. 25c

SINENSIS OR CHINESE PRIMROSE.—Beautiful, large, fringed flowers; especially fine for winter and spring flowers in the house; free bloomers.

FINEST MIXED. Pkt. 35c

PYRETHRUM

AUREUM (Golden Feather).—Half-hardy, perennial; valuable for edging, as their yellow foliage makes a fine contrast with other bedding plants; 6 inches. Pkt. 10c

HYBRIDUM GRANDIFLORUM.—Produce in early spring and again in the fall, large daisy-like flowers in a wide range of colors; excellent for cutting; perennial. (Plants, page 63.)

SINGLE MIXED. Pkt. 15c; 1/4-oz. \$1.00

HYBRIDUM DOUBLE MIXED.—While some of the flowers may come single, 80 per cent or more will be semi-double and double and be a grand improvement in form and rare colors. Pkt. 25c

POPPY—PAPAVER

Universal favorite of the easiest culture. They produce a wealth of the most beautiful and showy blooms. Both perennial and annual poppies bloom the first year and from early-sown seed. Perennial varieties will, but annuals will not, transplant safely, therefore sow the annuals where they are to remain and thin out, giving each plant ample room to grow and develop.

FLANDERS (Perennial).—The scarlet poppy of the fields of Flanders. Flowers satiny, crinkled, bright scarlet, nicely poised on slender stems. Pkt. 10c; 1/4-oz. 25c

TALL PEONY FLOWERED (Annual).—Large, handsome, showy double globular flowers. We offer 2 beautiful colors, Shrimp Pink and Vermillion Red. Pkt. 10c; 1/4-oz. 15c

CALIFORNIA.—See Escholtzia, page 44.

CARNATION FLOWERED (Annual).—Splendid double fringed flowers, salmon pink or mixed colors. Pkt. 10c; oz. 35c

ICELAND, OR NUDICAULE (Perennial).—These are of a very graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks, bearing beautiful brilliant single flowers in endless profusion, and most useful for cutting. (For plants, see page 75.)

YELLOW, WHITE, SCARLET. Pkt. 10c; 1/4-oz. 50c

SINGLE MIXED. Pkt. 10c; 1/4-oz. 35c

DOUBLE ICELAND MIXED.—Very choice strain, double flowers. Pkt. 15c; 1/2-oz. \$1.00

SUNBEAM.—An improved and glorified Iceland poppy. Sunbeam is a vast improvement.

Sunbeam Mixed. Pkt. 20c; 1/2-oz. 50c

Sunbeam Deep Orange or Yellow. Pkt. 25c; 1/2-oz. 75c

POPPIES, Continued

GIANT ORIENTAL POPPIES.—Among hardy perennials these hold an unrivaled position for gorgeous effectiveness. Height 2 to 3 feet.

ORIENTAL BRILLIANT.—Bright scarlet, black spots at base of each petal. Pkt. 10c; 1/2-oz. 75c

ORIENTAL PRINCESS VICTORIA.—A beautiful salmon-pink; wonderful flower. Pkt. 25c

ORIENTAL MIXED. Pkt. 15c; 1/2-oz. \$1.00

ORIENTAL POPPY PLANTS.—See page 63.

GIANT PANSIES

This popular flower thrives best on a cool, moist, but well-drained soil enriched with well-rotted barnyard manure or fine ground bone. Seeds sown early will produce fine plants for summer blooming. The florists' method, though, is to sow in July or August, and protect the plants during the winter, and they will flower continuously early the following spring and summer.

ROUTLEDGE PRIZE MIXTURE.—For variety of markings, beauty of form, size and splendid texture, this superb strain cannot be excelled. Pkt. 25c; 1/2-oz. \$1.25

STEELE'S MASTODON GREENHOUSE SPECIAL.—This superb strain is famous among professional florists everywhere.

GIANT TRIMARDEAU.—A popular bedding strain on account of the strong, sturdy plants and the enormous flowers in the greatest variety of colors. Mixed. Pkt. 15c; 1/2-oz. 50c

CHOICE MIXED. Pkt. 10c; 1/2-oz. 35c

New Giant Pansies, Separate Colors

Your choice of the following named varieties:

Pkt. 20c; full collection of 10 pkts. for \$1.50

ADONIS.—Of huge size, light blue.

PRINCE HENRY.—Giant, splendid dark blue.

MADAME PERRETT.—Fringed; dark pink and red.

GRAND DUKE MICHAEL.—Pure white.

MLLE. ISABELLE.—Ruffled bronze-yellow.

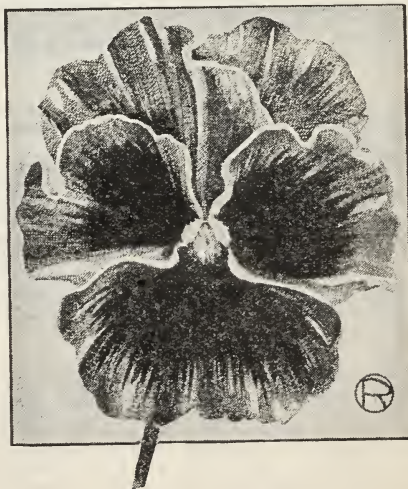
VULCANO.—A rich velvety Burgundy red.

MADAME STEELE (Elks Purple).—A giant

PANAMA PACIFIC.—A huge deep yellow.

BRONZE MASTODON.—Bronze to old gold.

WHITE MASTODON.—A giant white.



PLANTS.—Large flowering, choice pansy plants, ready very early in the spring. Can be safely sent by mail. Large plants in bud, 75c doz. postpaid.

PETUNIA

One of our easiest cultivated and freest flowering annuals. Will succeed almost anywhere and give a continuity of the most brilliant bloom from June till killed by frost. Excellent for balcony or porch boxes. The strains we offer are the very choicest obtainable.

Single Varieties

RUFFLED GIANT PRIZE MIXTURE.—This strain produces in great profusion enormous flowers, having edges of petals beautifully ruffled and fluted; of great variety of colors, many being beautifully veined; unsurpassed for size and beauty.

Pkt. 35c; 1,000 seeds \$3.00

NEW FRINGED HYBRIDIA

A lovely petunia with charming fringed flowers of exquisite forms and beautiful colors. Not equal in size to Ruffled Giant, but they are more delicate and really beautiful. Pkt. 25c; 3 for 60c

LARGE-FLOWERED FINEST MIXED.—Fine large flowers in superb mixture. Pkt. 15c; ½-oz. \$1.00

FINE MIXED.—An assortment of medium-sized flowers; fine for bedding. Pkt. 10c; ½-oz. 50c

Single—Separate Colors

PINK TRIUMPH—NEW.—Of large size, beautifully ruffled, a clear, bright pink. A charming free-flowering variety Pkt. 20c; 3 for 50c

GIANT WHITE.—Unrivalled for beauty of texture and size. A glistening satiny white with yellow throat. Pkt. 20c; 3 for 50c

ELKS' PURPLE.—Giant single purple. Pkt. 35c

PRIDE OF PORTLAND.—Beautiful fringed pink. Very popular local variety. Pkt. 35c

BALCONY PETUNIAS.—A new and splendid free, large-flowering type for windows, baskets, vases or bedding.

Balcony, White, Rose or Deep Blue.

Pkt. 20c; 3 for 45c

ROSY MORN.—Soft carmine pink, with white throat. A wonderful bloomer and fine for beds or border. Pkt. 10c; ½ oz. 75c

Double Petunias

All of our Double Petunias are selected with greatest care, and contain as large a percentage of double flowers as it is possible to obtain.

GIANT DOUBLE, FINEST MIXED HYBRIDS.—A new and exceptionally fine strain; unsurpassed for the large, beautifully colored double flowers. Pkt. 50c; 500 seeds \$3.00

GIANT DOUBLE MIXED.—Large fringed flowers of wonderful form and beauty. Quite true. Pkt. 35c; 500 seeds \$2.50

CHOICE DOUBLE MIXED.—Large per cent of double flowers. Pkt. 25c; 500 seeds \$2.00

RUDBECKIA

BICOLOR SUPERBA.—Fine free-flowering annual; 2 feet; long stems, bright yellow double flowers. Pkt. 10c

FULGIDA. (perennial).—Producing in masses during August and September brilliant orange-yellow flowers; 6 feet. Pkt. 10c

NEWMANI.—Perennial; large, bright orange-yellow flowers, dark centers. Pkt. 15c



New Fringed Hybrid

RICINUS

(Castor Oil Bean)

A magnificent and highly ornamental plant, with picturesque foliage and stately growth; hardy annuals.

ZANZIBARENSIS, Mixed.—Very ornamental; dark bronzy green and red leaves; 8 to 10 feet high. Pkt. 10c; oz. 35c

SANGUINEUS TRICOLOR.—Blood red stems, deep green leaves, with red veins; 6 feet. Pkt. 10c; oz. 35c

GIBSONI.—New, dark red foliage; 5 feet. Pkt. 10c; oz. 35c

FINEST MIXED.—All kinds. Pkt. 10c; oz. 20c

SCHIZANTHUS

(Butterfly Flower)

Beautiful garden annuals; flowers charmingly fringed and delicately colored; 1 to 2 feet.

GRANDIFLORA MIXED. Pkt. 10c; ½ oz. 75c

SMILAX

Tender climbing vine; perennial.

Pkt. 10c

SAPONARIA

OCYMOIDES.—Very showy perennial rock plant producing all summer masses of small bright rose flowers. 9 inches. Pkt. 15c

VACCARIA.—Annual, 2 feet, satiny pink. Fine in bouquets. Pkt. 10c

SWEET WILLIAM

Hardy biennial, well known, and very popular. The handsome, showy heads of brilliant flowers from June to September, are very effective. (Large plants see page 76.)

Dark Crimson, White, Pink Beauty or Mammoth Single Mixed. Pkt. 10c; ½-oz. 50c

Double Mixed.—All colors. Pkt. 10c; ½-oz. 40c

STATICE

Splendid hardy perennials, either for the border or rockery, producing all summer cloud-like panicles of minute flowers, which can be dried and used for winter bouquets. 2 feet.

LATIFLORA.—(Perennial.) Deep blue. Pkt. 10c

SINUATA.—Annual Statice, in blue, rose or white. Pkt. 10c



Salpiglossis

SALPIGLOSSIS

Produces very showy, trumpet-shaped flowers of large size and rich, gorgeous colors; fine for beds and one of the prettiest cut flowers we have. Of easy culture and very popular. Easily started outside; half-hardy annuals. 2 feet.

EXHIBITION MIXTURE.—Large flowering, of the very choicest colors. Pkt. 10c; 1/8-oz. 60c

SEPARATE COLORS as follows: **PURPLE and GOLD, SCARLET and GOLD, VELVET RED, WHITE, BROWN and GOLD, LIGHT BLUE.**

Pkt. 15c; 1/4-oz. 50c

PLANTS MIXED COLORS IN MAY, 60c DOZ., POSTPAID.

STOCK

(Gilliflower)

By far one of the most popular annuals for garden or greenhouse culture. They are superb for cutting and are of great value for bouquet work. Flowers are of delicious fragrance, large, mostly double, and borne on handsome spikes; all will flower the first year. They are very hardy and often remain in bloom in the yard all winter in the vicinity of Portland. Sow in February or March for early blooms and in June for fall or winter flowers, and transplant, 60c doz. in May. See illustration, page 52.

BISMARCK TEN WEEKS.—New. A quick blooming giant flowered stock of special merit, growing about 30 inches tall, of branching habit and produces freely beautiful spikes of double flowers. Excellent for cutting or mass bedding. White, Blush, Rose, Yellow, Lavender, Dark Blue, Fiery Red and Choicest Mixed. Pkt. 10c; 1/8 oz. 90c

GIANT PERFECTION.—Large double flowers; fine for cutting and garden. (2 feet.)
Finest Mixed. Pkt. 10c; 1/8 oz. 75c

BEAUTY OF NICE.—Popular with florists for cutting, flowers of large size, double, and freely produced; 2 feet.

Mixed.—All colors.	Pkt. 15c
Princess Alice.—Double white.	Pkt. 15c
Queen Alexandra.—Soft rosy lilac.	Pkt. 15c
Beauty of Nice.—Delicate flesh pink.	Pkt. 15c

SALVIA (Scarlet Sage)

The Scarlet Sage has long been a favorite bedding plant, bearing long spikes of brilliant scarlet flowers in great profusion from July till frost; seed should be sown as early as possible, either indoors or in a hotbed, and the young plants transferred to their flowering quarters when the weather has become settled and warm. **PLANTS IN MAY** 50c doz., postpaid.

SPLENDENS COMPACTA.—A splendid, showy variety, with large spikes of bright rich scarlet flowers; 3 feet. Pkt. 10c; 1/8-oz. 50c

AMERICA—NEW.—Of dwarf, bushy, compact growth, very uniform, early and continuous bloomer. Flowers brilliant, rich scarlet. 1 1/2 feet. Pkt. 15c; 1/8-oz. 75c

BONFIRE.—Of bushy, compact growth. Flowers dark, rich scarlet, on spikes which stand clear of the foliage and attract attention at once; 2 feet. Pkt. 15c; 1/8-oz. 60c

ZURICH.—A splendid new dwarf, of special merit; early. Brilliant scarlet and very free flowering; 15 to 18 inches. A very popular variety. Pkt. 15c; 1/8-oz. 75c



Scabiosa

SCABIOSA

(Morning Bride—Pin Cushion Flower, Etc.)

The hardy annuals are easily grown from seeds sown after danger of frost is over. Their beautiful, dainty flowers are freely produced on fine long stems from July to frost; 2 feet. For cut flowers they are wonderful, lasting for nearly a week.

HARDY ANNUALS.—Lavender, Rose Yellow Scarlet or White or Finest Mixed. Pkt. 10c; 1/4-oz. 35c. (Plants in season 60c doz., postpaid.)

HARDY PERENNIAL VARIETIES.—Caucasia, soft blue, pkt. 15c. Japonica, lavender blue, pkt. 10c.

Willits, Calif., March 29, 1930.
Routledge Seed & Floral Co.

Gentlemen: I have just received the set of six flowering Begonias. They arrived in splendid condition. I am very much pleased.
MRS. A. E. YOUDE,

See page 74 for Begonia bulbs.

HOW TO GROW FLOWERS AND SEEDS.—Our two-page leaflet gives full information and is free on request.

THALICTRUM

Meadow Rue

These stately flowering plants should be more extensively planted on account of the beautiful, finely cut foliage and lovely flowers. Will do well in shady places.

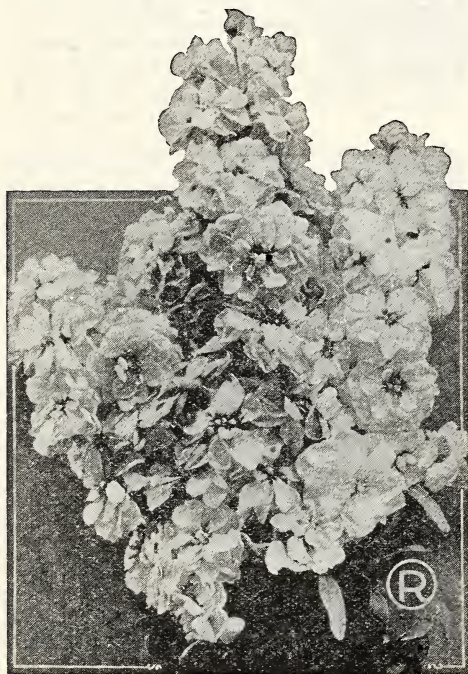
DIPTEROCARPUM.—Buds resemble pearls opening into lovely lavender flowers.

Pkt. 25c; Plants 3 for \$1.00

GLAUSUM.—Fine cut glaucous foliage, bronzy-yellow flowers in June. Pkt. 15c

AQUILEGFLORUM ALBUM.—Elegant foliage feathery white flowers. Pkt. 15c

GARDEN GUIDE.—The amateur gardener's handbook, 275 illustrations; covers all subjects. Paper cover, \$1.10; cloth, \$1.65. postpaid.



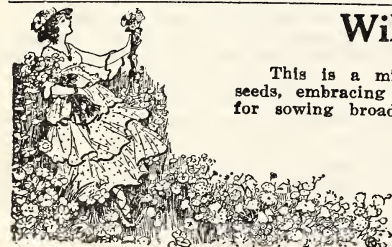
Bismark Stocks (See page 51)

TRITOMA

(Red Hot Poker)

Striking and exceedingly ornamental autumn flowering plant. Showy flower spikes, shaded red and yellow; 3 feet. (See cut and plants, page 63.)

Pfitzeri Pkt. 10c; ½ oz. 50c

**Wild Flower Garden—Mixture**

This is a mixture of easy growing, hardy annual and perennial flower seeds, embracing a wide range of different kinds and colors. Very desirable for sowing broadcast along walks, shrubbery, pathways, roadways or in the garden. With little or no care they will produce a bright effect and furnish an abundance of flowers for cutting. If you wish to get the largest returns plant in a prepared bed and when the plants are a few inches high, transplant here and there or wherever wanted. You will derive a great amount of pleasure from watching the development of the flowers from the unknown plants.

Prices—Well filled pkts. 10c; oz. 25c; lb. \$2.00

*Hermiston, Oregon, May, 1930.**Routledge Seed & Floral Co.*

Gentlemen: I am sending for more of your lovely Geraniums. Mine are blooming fine, that I got, and my fern that I sent for last spring, was beautiful.

*MRS. A. M. SMITH.***THUNBERGIA**

Extremely pretty yellow flowers with dark eye; rapid-growing annual trailers.

FINEST MIXED.

Pkt. 10c; ¼ oz. 75c

VERBENA

One of the finest bedding plants and also suitable for borders, baskets and window boxes. Plants in May, 60c doz. postpaid.

NEW GIANT.—The most beautiful and remarkable variety yet introduced.

Hybrida Giant Mixed.

Pkt. 15c; ½ oz. 40c

LUCIFER.—A new mammoth variety of dwarf spreading nature, flowers of the bright, vivid, cardinal scarlet, throughout.

Pkt. 15c ½ oz. 60c

MAMMOTH.—A carefully selected and improved strain. The trusses and individual flowers are of the largest size, of brilliant colors; free-blooming and of vigorous habit. Your choice of Mammoth White, Scarlet, Rose-Pink, Purple shades or Mixed.

Pkt. 10c; ¼ oz. 50c

FINE MIXED.—A choice mixture of large-flowering sorts.

Large pkt. 10c; ¼ oz 40c

VALERIANA

(Garden Heliotrope)

A fine old-fashioned hardy plant; flowers have a strong heliotrope odor; showy, red or white; fine for bouquets; 2 feet.

MIXED.

Pkt. 10c; ½ oz. 25c

VIOLAS

Tufted Pansies

These resemble pansies in shape and form. Flowers are smaller, clear and distinct, with longer stems and flower freely from early spring until snow flies. Seeded in April will flower in June.

Pkt. 15c

VIOLET

Viola Odorata is the well-known English Violet, a free-flowering, hardy perennial.

ODORATA.—Blue or White.

Pkt. 25c

VIOLET PLANTS.—A collection of 6 named kinds for \$2.00, postpaid.

WALLFLOWER

Very highly prized, old-fashioned plants, beautiful, early spring flowers; plants 76.

SINGLE YELLOW, DARK RED OR MIXED.

Pkt. 10c; ½ oz. 25c

DOUBLE, FINEST MIXED.—Fragrant; 3 feet.

Pkt. 15c; ½ oz. \$1.00

WILD CUCUMBER

(See Echinocystis, page 44.)

SWEET PEAS "Highest Quality" TRUE VARIETIES

QUALITY and TRUENESS is what makes the price in Sweet Peas. Low prices never bought "HIGHEST QUALITY" Seeds. Read about "Snarol," pages 53, 54.

NEW GIANT SPENCERS 1931 PRIZE COLLECTION

Collection Price, 12 New, Lovely Kinds
(value \$1.65), SPECIAL, \$1.00, postpaid

MARY PICKFORD.—A beautiful dainty cream pink with just the faintest suffusion of salmon, making a color combination of delightful beauty. Flowers large, decidedly waved on long stems of real merit. Pkt. 10c; ½ oz. 30c; oz. 50c

HEAVENLY BLUE.—This is a charming shade of bright sky-blue. The flowers are large and of finest form and come freely on long stems. It is bright and harmonious when bunched. Pkt. 15c; ½ oz. 35c; oz. 60c

AVALANCHE.—It is gigantic in size, exquisite in form and pure in color. By far the best white Sweet Pea today. Perfect long stems, with four beautiful frilled flowers. A vigorous grower, very free-flowering and a prize winner. Pkt. 15c; ½ oz. 40c; oz. 75c

ROYAL SOVEREIGN.—A wonderful variety, a great producer of enormous, waved and frilled flowers that generally come four to the stem. The color is a rich, glowing, deep orange. Pkt. 15c; ½ oz. 35c; oz. 60c

WEMBLEY.—New.—A true, clear, lilac lavender of giant size and perfect form. There is nothing quite so rich in lavenders as this splendid variety. Pkt. 15c; ½ oz. 35c; oz. 60c

PINKIE.—This beautiful Sweet Pea is unsurpassed for either exhibition or general cutting purposes. The color is a most distinct and beautiful shade of rich rose pink, flushed and shaded with salmon pink. Long stems. Pkt. 15c; ½ oz. 40c; oz. 70c

GOLD CREST.—A great advance in its color class; a flower of great size and finest form. The color is salmon, flushed orange. Truly a beautiful flower. Pkt. 10c; ½ oz. 35c; oz. 60c

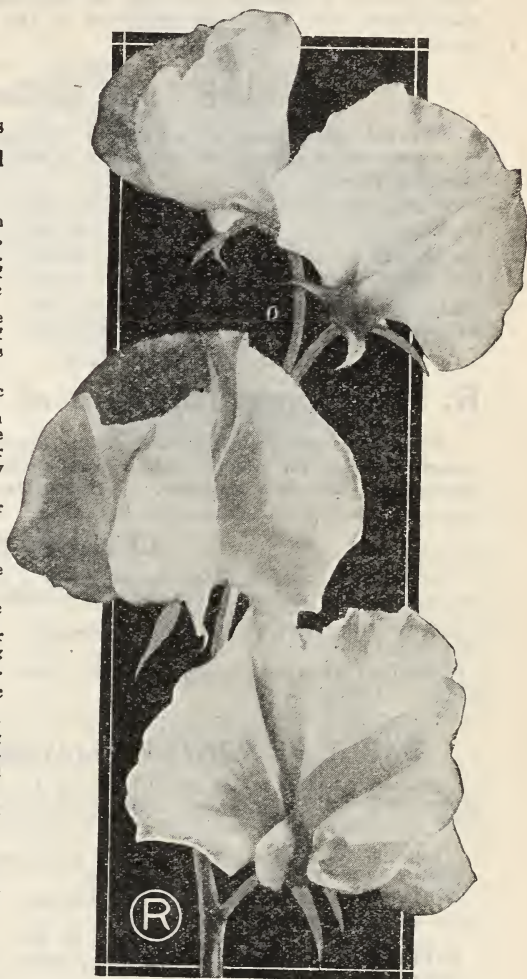
WHAT JOY.—At last a deep, rich, pure cream colored sweet pea of vigorous free-flowering qualities. Fine frilled flowers; very charming. Pkt. 15c; oz. 75c

POWERSCOURT.—A pure lavender self with flowers of mammoth size, yet refined and well placed on long stems. Of vigorous and free-flowering habit. The one best pure lavender. Award of Merit from the National Sweet Pea Society of Great Britain. Pkt. 15c; oz. 60c

CHARITY.—New. A remarkable new crimson of great richness and substance. Wonderful flowers, freely produced on long stems. Unsurpassed. Pkt. 10c; oz. 40c

MAMMOTH.—This will please all who admire bright scarlet sweet peas. Flowers large, of perfect form and freely produced on long stems. Blazing scarlet. Pkt. 15c; ½ oz. 40c

MAGNET.—This is a magnificent bright cream pink. The standard is of enormous size and frequently measures 2½ inches across. The whole flower is of excellent form, much waved and frilled. Pkt. 15c; ½ oz. 30c; oz. 50c



Routledge Seed & Floral Co.

Dear Sirs: Enclosed find my check and order for sweet pea seeds. I have planted your sweet pea seed for a number of years and always had exceptionally good results. My 1928 sweet peas were the envy of the neighborhood.

MRS. L. E. ELLIOTT.

Snoqualmie Falls, Wash., April 14, 1930
Routledge Seed & Floral Co.

Dear Sirs: Please send me the following: Two pkgs. Superb 1929 Collection Sweet Peas. I used your seeds last year, and never before have I had such beautiful sweet peas.

MRS. A. H. LEE.

Treat your Sweet Peas with "McQueen's Inoculator" before planting and note increased vigor of the plants—see page 31.

SWEET PEAS (Continued)

PRIZE SWEET PEAS.—If you want to grow giant flowers on long stems, you must give your sweet peas good soil, plenty of water at the roots in dry weather, some Marvel Fertilizer, and pick the flowers often. Our "leaflet" tells all—free with each order. Use new soil and Peat in the Sweet Pea trench if you plant in same place as last year.

Superb 1931 Collection Sweet Peas

SPECIAL.—One packet of each of the following seven choice kinds—**VALUE 75c, for 50c.** Add 15c extra (total 65c), and we will include a 25c packet of R. R.'s Superb Mixture Giant Spencers (described below):

CONSTANCE HINTON.—Giant white of fine form. Hardy. Pkt. 10c; oz. 40c

MARGARET ATLEE.—Rich cream pink, beautifully frilled. Pkt. 10c; oz. 40c

HALMARK LAVENDER.—Beautiful, pale lavender, large flower. Pkt. 15c; oz. 40c

HALMARK PINK.—A very rich pure pink of fine form. Pkt. 10c; oz. 40c

BARBARA.—Very popular. Beautiful rich orange. Pkt. 10c; oz. 40c

KING EDWARD SPENCER.—The most popular deep scarlet. Pkt. 10c; oz. 40c

ROYAL PURPLE.—A true rich purple of large size. Pkt. 10c; oz. 40c

R. R.'s Superb Mixture of Giant Spencer Sweet Peas

This is our own special mixture and is composed only of the best giant orchid-flowering wavy Spencer varieties. For healthy, robust growth, wealth of blooms, size of flowers and exquisite and rare colorings, this mixture is unequaled. $\frac{1}{2}$ -oz pkts. 15c; oz. pkts. 25c each; 3 for 60c; 6 for \$1.00.

CUPID SWEET PEAS

Compact dwarf plants, seldom growing over 4 to 6 inches high. Flowers of good size and at the top of short, stiff stems. **YOUR CHOICE, NAMED, PKT. 15c; OZ. 50c.**

LITTLE NELL.—Pink wings, white standard. Very early.

ROSEBUD.—Vines not over 4 inches high; lovely creamy apricot-pink.

MIDSHIPMITE.—Spreading, often 18 inches. Flowers white, suffused and edged violet-blue.

CUPID MIXED.—Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c

EARLY OR WINTER FLOWERING SPENCER SWEET PEAS

This new class of Sweet Peas is the best for the florist to force under glass or for extra early flowers outside. They grow and flower earlier than the Giant Late Spencer. Excellent for sections where the season is late and short or very hot and dry. Plant early.

PRICES.—**YOUR CHOICE, PKT. 15c; FULL COLLECTION 90c; OZ. 50c.**

EARLY LIBERTY.—Large, bright crimson.

EARLY SWEET LAVENDER.—A new pure lavender, giant flowers of beautiful form. Pkt. 20c; oz. 75c

EARLY MORNING STAR.—Salmon pink; extra.

EARLY PEACE.—Rose-pink on cream.

ALL WHITE.—Largest waved pure white.

EARLY TORCH.—A lovely orange shade.

EARLY SPRING MAID.—A lovely light pink.

EARLY AVIATOR.—Dazzling crimson-scarlet.

EARLY PINK CHEROKEE.—Of unsurpassed beauty and form. A lovely rich pink suffused with bright salmon. Pkt. 20c; oz. 75c

EARLY SUNRISE MIXTURE.—A very select mixture of early varieties. Pkt. 10c; oz. 40c

ZINNIAS

The most popular flower of the day, easily grown from seed planted outside early in the spring.

Improved Double Dwarf Zinnia

ELEGANS PUMILA.—This improved strain of double, dwarf Zinnia is wonderfully adapted to beds or borders. The plants are of compact rounded form and produce from early summer until late fall, a multitude of medium size bright, showy rounded flowers on fine long stems.

Planted 15 inches apart they will make a solid compact border. The most showy and satisfactory hardy type of free flowering annual we have for this purpose.

The flowers, on their graceful stems, make lovely bouquets all by themselves or mixed with other flowers. Well grown plants are 12 to 15 inches tall but full and compact from the ground up. Easily grown from seed planted in the early spring, either inside or outside in beds and later transplanted to their permanent place. We offer the most popular colors.

BRIGHT SCARLET, GOLDEN YELLOW, SALMON ROSE, WHITE OR MIXED. Pkt. 10c; $\frac{1}{4}$ oz. 25c

Elegans Tall Double Mixed

A choice strain of medium-sized, double flowers (3 $\frac{1}{2}$ feet). Pkt. 10c; $\frac{1}{4}$ oz. 25c

You will find many other varieties of Zinnias on next page.

Routledge Prize Zinnias

The Zinnia is one of the most brilliant, showy and satisfactory annual flowers. It has long been a general favorite, but with the wonderful new and "late creations" produced by "Zinnia specialists" in the last few years it now is probably the most popular flower of the day.

For mass planting, cut flowers and decorations they are unsurpassed, producing a wonderful display from July until heavy frosts.

NEW DAHLIA FLOWERED

This new, giant, double-flowered Zinnia (see cut) is a wonder in size, shape, new colors, perfection and profusion of flowers. Plants grow sturdy and vigorous, about 3 feet high. Flowers 4 to 6 inches across, full, very deep and of the most wonderful shades. All of the usual colors and many rare, such as salmon, old rose, pink, cerise, strawberry red and autumn tints. We offer a very select strain of seed containing all novelties.

DAHLIA FLOWERED GOLD

MEDAL MIXED.—Pkt. 15c; 2 for 25c; 1/4-oz. 60c.

Six New Novelties in Separate Colors

Your choice of the following: Large pkt. 20c; all 8 colors, \$1.00; 1/4-oz. any kind, 75c.

EXQUISITE.—A charming true dahlia-flowered type of light rose, shaded deep rose at center.

CRIMSON MONARCH.—Largest and best of the red shades, plants vigorous.

BUTTERCUP.—An immense deep canary yellow. A desirable color for every collection.

METEOR.—A rich, glowing, deep red, darkest of all red shades. Very large.

DREAM.—A fine deep lavender turning to mal-low purple. A new and desirable shade.

ORIOLE.—A very popular color, orange and gold; a bicolor changing slightly as it ages but very charming at all times.

SCARLET FLAME.—A large, beautiful bright scarlet, very showy.

PURPLE PRINCE.—A fine purple (Rhodanthé Purple), large and well formed.

GIANT MAMMOTH "NOVELTIES"

These wonderful new novelties, a cross between the Dahlia and Double Giant, show smaller centers and more loosely placed petals, while the size of the flower is immense, larger than the Double Giants. The handsome flowers are decidedly imbricated and the flower, from bud to full bloom, presents a very graceful and pleasing appearance. (3 feet.)

PRICES: Your choice of the following—Pkt. 15c; collection of 6 for 75c; 1/4-oz., any color, 75c.

ORANGE KING.—A striking shade, glowing orange.

SCARLET GEM.—One of the brightest in this class; a rich, glowing scarlet.

LEMON QUEEN.—Of immense size and unique inasmuch as it carries a pleasant odor; light canary on upper side of petals, cerise on lower; the whole blending into a variety of lemon tints delightfully different.



DAHLIA FLOWERED ZINNIA.—See colored cut outside of back cover.

ORANGE QUEEN.—Not as dark as Orange King; distinct from all other shades.

PURITY.—A pure white, without the objectionable "green" tint that has made white zinnias so unpopular in the past.

ROSE QUEEN.—Opens bright rose with deep rosy red center; gradually develops into a warm, deep rose in full bloom; a great favorite—size and form perfect.

GIANT MAMMOTH MIXED.—A grand mixture of all colors. Pkt. 15c; 1/4-oz. 60c

DOUBLE GIANT ZINNIAS

These are the improved giant flowering type. Flowers are borne on long stiff stems and are of a semi-globular form, very full and double. Excellent for cutting. Plants grow 2 1/2 to 3 feet high and produce very freely handsome flowers, many measuring from 4 to 5 inches across and all of lovely rich and rare colors.

SUPERB DOUBLE GIANT SPECIAL MIXTURE.—Our own mixture of the finest colors. A blend of wide range and rare and rich colors.

Pkt. 15c; 4 for 50c; 1/4 oz. 60c

DOUBLE GIANT.—All colors mixed.

Pkt. 10c; 1/4-oz. 50c

SEPARATE COLORS DOUBLE GIANT

WHITE	LAVENDER
CRIMSON	SHRIMP PINK
GOLDEN YELLOW	BURNT ORANGE
PURPLE	DEEP ROSE
SALMON	RUBY RED
CANARY	MIXED COLORS

Your choice of above colors, pkt. 10c, or any SIX COLORS for 50c; 1/4-oz., any kind, 25c.

Clarkston, Wash., Mar. 31, 1930.
Routledge Seed & Floral Co.

Gentlemen: Beg to advise that at the 1928-1929 Fall Flower Show of the Lewiston Clarkston Valley, I took First Prize on Zinnias from your seed as ordered above. (Dahlia Flowered Gold Medal Mix).

ARTHUR H. CROY.

ZINNIA PLANTS.—Strong transplanted plants. **ORDER EARLY** and we'll send in **PROPER SEASON**. Prices, prepaid: Separate colors, (not less than 4 of a color), doz. 60c. Mixed colors, doz. 50c.

BEAUTIFUL ORNAMENTAL FERNS, PALMS, ETC.

OSTRICH PLUME (See cut).—The fronds of this popular variety are the most delicate and plume-like. They are beautiful, full and fluffy, well-grown plants; are truly magnificent and last well in the house.

Choice plants, 25c to 50c, postpaid
Specimen plants in pots, \$1.25 to \$3.00

BOSTON FERN.—One of the most beautiful; of easy culture, sword-like fronds; produced in a bewildering mass, arching, curving and interlacing in every conceivable direction.

Choice plants, 25c to 50c, postpaid
Specimen plants in pots, \$1.00 to \$2.50

ASPARAGUS SPRENGERI (Emerald Feather).—Of drooping or trailing nature, valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green, feathery foliage; very hardy.

Choice plants, 20c to 35c, postpaid
Specimen plants in pots, 50c to \$1.25

ASPARAGUS PLUMOSUS (Climbing Lace Fern).—Very popular, hardy and easily grown. Very satisfactory for window and house culture. Extremely graceful; bright green, feathery foliage, as fine as the finest silk or lace.

Choice plants, 20c to 35c, postpaid
Specimen plants in pots, 50c to \$1.25

KENTIA PALM

A beautiful, graceful, handsome looking, strong growing palm. One of the most popular for home culture. If we could have but one palm, it would be a Kentia. Not available.

Choice plants in pots, 18 in. to 24 in., \$2.50-\$3.00.
Specimen plants, \$5.00 to \$15.00.



Ostrich Plume in a Fancy Jardiniers
(Specimen Plants by Express Only)

RUBBER PLANT

Very popular and easily grown. Its glossy, thick, dark-green leaves are not affected by dust or gas. Choice plants in pots (not available), 15 to 18 in., \$1.50; 2 foot up, \$2.00 to \$5.00 and up.

REX BEGONIAS

One of the most ornamental of window plants. Very popular and easily grown.

Prices: 35c each; 3 sorts, 75c, postpaid; large plants in pots (not available), 75c to \$1.00.

FINE FLOWERING HOUSE PLANTS

GENISTA, Racemosa.—A highly ornamental plant that grows thriftily with ordinary care, flowering so freely as to literally cover the plant with its rich golden yellow flowers. Very popular for Easter decorations, at which time it is usually a mass of bloom. 25c each.

ALOYSIA CITRIODORA.—The well-known Lemon Verbena. Sweet scented foliage. An old favorite. 25 cents each.

CYCLAMEN, Giant Persian.—These are among the most beautiful and interesting Winter and Spring flowering bulbs for the window and greenhouse. Price: Young plants for blooming next Winter, 25 cents each; 3, all different, 65 cents.

WANDERING JEW (Tradescantia).—Two kinds, green leaved and pink variegated. Each 20c; 3 for 55c.

PRIMROSE, Giant Obconisa.—The freest flowering house plants we know of. Plants in small pots have many sprays of flowers on stems 10 to 12 inches high, lasting in bloom fully four weeks without fading, and continually sending new sprays, making it one of the most desirable plants for the house ever introduced. Lavender, Pink, white or Red. Price, 25 cents each; extra large plants in bloom, 40 cents each; large plants in pots by express only \$1.00.

PELARGONIUMS.—(Lady Washington Geraniums).—An old but popular family of bedding and house plants. Produce large trusses of delicate and richly colored flowers all summer. We have 4 choice sorts including the well known EASTER GREETING. Price 30 cents each. Set of four kinds for \$1.00.

IMPATIENS HOLSTI.—One of the prettiest and most satisfactory house plants for winter blooming as well as a charming feature of the summer garden. Bears profusely brilliant vermilion colored flowers against a rounded background of glossy green leaves. 25 cents each.



Primrose

USE "MARVEL"—The best Fertilizer and plant food known. A teaspoonful to a plant does wonders. Descriptive pamphlets on request. See page 30.

FLOWERING PLANT COLLECTIONS

On this and the two following pages we offer plant collections grown especially for our out-of-town customers. All orders for these plants are sent direct to the greenhouse where they are gathered, packed and wrapped with special care so they will travel in safety by parcel post. Every plant is carefully labeled. Order any time; we'll send "In season."

1931 COLLECTION—TWELVE GRAND SINGLE GERANIUMS

Price 20c each; set of 12 varieties, \$2.00 postpaid



ALBION.—Beautiful free flowering white variety, as pure in color as driven snow. Always in bloom.

EMANUEL ARENE.—Rich, dark, velvety crimson maculated orange-red on upper petals.

JACQUERLE.—Rich, vivid crimson; immense trusses. Excellent for bedding. Blooms freely.

MAXINE KAVOLEVSKI.—Orange-scarlet, almost could be called yellow. Fine large trusses. Very free.

METEOR.—A continual bloomer of a brilliant crimson red flower; dwarf, compact habit.

MILDRED RIVAL.—Pure rose-pink, with conspicuous white blotch on two upper petals.

MRS. A. BLANC.—Silvery salmon shaded peach and apricot. One of the richest colored sorts.

MRS. E. G. HILL.—Very large trusses; color clear salmon, with a white center; excellent.

PAUL CAMPBELL.—Large round, dark scarlet flowers in large panicles; very fine sort.

ROSAMINE.—Old rose, pink, fluted violet and maculated with white. Very distinct.

ROMILDA VICINI.—Grand white ground overlaid with salmon-pink; upper petals feathered with crimson. Splendid flowers.

VAN BENEDEN.—Rich plum color upper petals, shaded scarlet at base; very distinct.

BEAUTY COLLECTION—TWELVE GRAND DOUBLE GERANIUMS

Price 20c each; set of 12 varieties, \$2.00 postpaid

Alphonse Ricard.—Rich, velvety scarlet, extra large and brilliant.

Beaute Poitevine.—Very large semi-double flowers of a brilliant salmon color.

Edmond Blanc.—Rich purple-violet flowers borne in great freedom. Distinct and beautiful.

Fiat.—Rich salmon with flesh colored shadings. Always in bloom. Superb.

Golden Dawn.—Compact trusses of yellowish vermillion flowers. The nearest approach to yellow.

Jean Viaud.—Soft rose color shaded to white. Immense flowers in large trusses. Magnificent variety.

Madame Landry.—Rich, bright apricot, shaded with orange; very large trusses.

Madame Recamier.—Ivory white flowers in very large trusses. Strong, healthy grower.

Mrs. Lawrence.—Lovely satiny pink, shaded to white; its delicate color is delightful.

Marquise de Castellane.—Rich solferino-pink. Immense trusses. Very brilliant and attractive.

S. A. Nutt.—The best of the rich, dark crimson varieties; very popular.

Thos. Meehan.—Rich, purplish rose color, upper petals marked with orange. Rare.

BEAUTY COLLECTION CHOICE FUCHSIAS

This graceful class of plants make especially fine subjects for house culture as well as for planting in the garden. They are almost continuous bloomers and are very easily raised. The single varieties are the most floriferous, while the double sorts bear the larger flowers.

PRICE 20c EACH; COLLECTION OF 6 SORTS, \$1.00

Annie Earle.—Tube and sepals waxy white, corolla single, clear carmine; plant splendid and free blooming.

Beauty of Exmouth.—Rich purple corolla streaked scarlet at base. Scarlet sepals. Double flowered.

Black Prince.—Single violet rose corolla with carmine pink sepals. Large pendant flowers in great freedom.

Montrosa.—Graceful double white flowers in great profusion. Truly everblooming.

Swanley Gem.—Single purplish mauve corolla. Sepals deep red. Long narrow bloom.

Sylvia.—Large double corolla, pure white veined scarlet. Sepals scarlet. One of the best of its color.

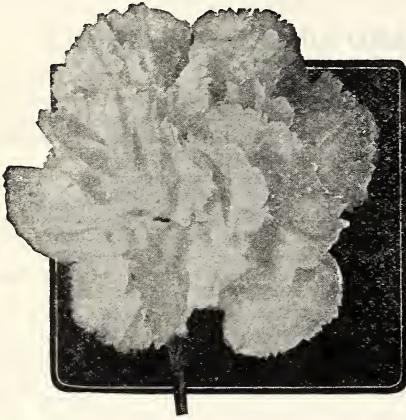


Fuchsia

USE "MARVEL"—The best Fertilizer and plant food known. A teaspoonful to a plant does wonders. Descriptive pamphlets on request. See page 30.

CARNATION PLANTS

For beauty, fragrance and abundance of flowers, for its hardiness, easy culture and adaptability to outdoor or indoor cultivation, no plant excels the ever-blooming Carnation.



Wonder Collection Carnations

Price 20c each; 10 for \$1.75, postpaid

We have selected the varieties in this collection with much pride to ourselves, believing that we are giving to our patrons a set of Carnations which for general planting cannot be excelled. All have flowers of large size, strong and healthy growth and very free-blooming qualities.

- Alice.—Delicate flesh pink; very sweet.
- Aviator.—Rich, bright scarlet.
- Belle Washburn.—Deep brilliant scarlet.
- Bonora.—White, flaked with scarlet.
- Enchantress.—A superb flesh pink.
- Matchless.—Pure white flushed pearl.
- Mrs. C. W. Ward.—Bright, glistening pink.
- Pocahontas.—Crimson maroon.
- White Enchantress.—A beautiful white.
- White Wonder.—Glistening pure white.

1931 COLLECTION GIANT JAPANESE CHRYSANTHEMUMS

Price 20c each; sets of 12 sorts, \$2.00 postpaid

Betsy Ross.—Globe-shaped, grand size and texture. Pure glistening white.

Bronze Queen.—Rich golden bronze. Fine incurving petals, freely produced.

Brilliant.—Deep crimson maroon flowers, freely produced. Early flowering.

Crystal Queen.—Large incurved, pure white flowers on stout stems.

Chrysolora.—One of the finest yellows. Large, incurved flowers of elegant form.

Chieftain.—A beautiful broad-petaled, incurving flowers, delicate silvery pink.

Early Frost.—Pure snowy white flowers of incurved form.

Golden Glory.—Large incurved, rich golden yellow color.

Oconto.—Popular variety, pure white, early.

October Rose.—Soft rose pink, flowers of fine size and splendid form. Strong grower.

Rose Chocard.—Large perfect incurved flower; rose pink.

W. H. Waite.—Deep bronze, shaded gold, incurved.



GLORY COLLECTION NEW ENGLISH GARDEN CHRYSANTHEMUMS

To those persons who have planted the late flowering sorts and failed to get them into bloom before frost, these new imported sorts will appeal. All will flower readily in the garden during September and October. Flowers smaller than, above, but prettier for bouquets.

Price 20c each; full collection of 12 sorts, \$2.00 postpaid

Camille Bernadine.—Large, fluffy flowers of violet and carmine color, shaded with white.

Chaldron.—Ruby red, flushed with chamols and gold. Early and free.

Champagne.—Rich red, tipped with gold. Dwarf growing and very free.

Cranford White.—Snowy white flowers of beautiful form. Nice dwarf grower and free blooming.

Glory of Seven Oaks.—Deep golden yellow, very free flowering. Excellent dwarf habit.

Groacher's Crimson.—Large, handsome flowers of a rich shade of crimson. Blooms very early.

Henry Vincent.—Rose-pink flushed with silver. Very free.

Le Pactole.—Rich, bright yellow. Blooms in great profusion. One of the best of its class.

Mignon.—Rosy pink, shaded silvery. Strong, vigorous grower and very free.

Queen of Whites.—Showy white flowers cover plant early in the fall. A gem in the garden.

Red Warrior.—Chestnut red flushed with gold; very fine bloomer.

Source de Or.—Tawny red flushed with bronze and chamols. Narrow tubular petals almost like a cactus dahlia.

BEAUTIFUL FLOWERING BEGONIAS

Probably the most satisfactory class of plants for house culture obtainable. Of easiest possible culture. The waxy flowers produced in much profusion, together with their handsome foliage, makes them most desirable subjects for the window garden.

Price 20c each; full collection of 6 for \$1.00, postpaid

Alba Picta.—Pretty ovate shining green foliage myriads of pure white flowers; bushy growth. Fine pot plant.

Argentea Guttata.—Handsome erect growing sort with pointed, wine-colored leaves with white spots. Pure white flowers.

Chaterocher.—Covered all the year with bright flowers; handsome green foliage. A fine house plant.

Compta.—Long pointed, dark green leaves, distinctly silvered along the mid-rib and veins. Wax-like, white flowers.

Gloire de Chatelaine.—Glossy green ovate leaves, flowers pink, heavily bordered with rose pink. A grand new variety from France.

Marguerite.—Foliage bronzy green, with purple cast on under side. Large, pure white flowers in good size panicles.

Sandersoni.—Coral pink flowers in large clusters with deep sea-green foliage of waxy texture. Splendid window plant.



Begonia in Full Bloom

REX BEGONIAS.—See page 56.

NEW ENGLISH SNAPDRAGON

Anthirrhinum.—These new varieties grow about 1½ feet high and flower continuously all summer. The flowers are closely set in large spikes and cover a wide range of color. Snapdragons are one of the very best bedding plants and are very popular at present. They can be planted annually like geraniums but are hardy west of the Cascades and will thrive the second year outside.

Prices postpaid.—SIX CHOICE NAMED SORTS each of a different color, 75c. CHOICE MIXED unnamed, \$1.00 dozen.

SINGLE BEDDING PETUNIAS

Petunias are undoubtedly one of the most popular summer flowers of the time. Especially are the new single sorts prime favorites because of their easy growth and free blooming habits.

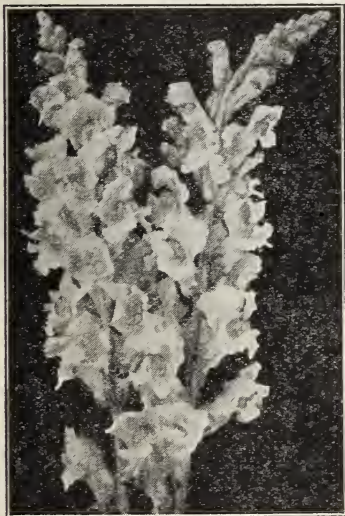
SINGLE VARIETIES 20c EACH, \$2.00 DOZEN

ELKS PRIDE.—Rich dark purple single flowers in great profusion all summer.

SCARLET BEAUTY.—Bright scarlet, single-fringed flowers in great profusion.

PRIDE OF PORTLAND.—A beautiful single variety. Large fringed blooms of a soft bright pink.

GIANTS OF CALIFORNIA.—Large ruffled and fringed flowers in great variety of colors and markings. All colors mixed. 15c each, \$1.50 doz.



SNAPDRAGON

Lobelia Trailing.—Dainty blue flowers. 3 for 25c; Doz. 60c

LANTANAS

Lantanas are showy bedding plants flowering all through the season and until cut down in the fall by frost. They withstand the hottest sun and dry weather remarkably well. Our collection includes only the newer dwarf sorts with highly colored umbels of flowers. The Lantanas are especially useful for borders for large beds of Cannas or Geraniums.

Price 20 cents each. Set of 6 sorts \$1.00

Ameil.—Richly colored sort with umbels of little florets orange-red on the outer edge and golden yellow in the center. Covered all summer with its brilliant flowers. A gem for bedding.

Courbeille d'Argent.—A free blooming pure white sort. Dwarf and compact grower. Never out of bloom.

Countess Biencourt.—Bright rose-pink, each floret centered with primrose-yellow. Each floret with orange-yellow throat. Chaste and beautiful.

Jaun de Or.—Large umbels of sulphur-yellow flowers changing to a beautiful pink with age. One of the most beautiful sorts.

Radiation.—Brilliant umbels of bronzy red florets with golden yellow centers. Very bright and attractive.

Tethys.—Sulphur-yellow with golden yellow throat in each floret. Entirely distinct from all other sorts. A gem for bedding.

PRICE LIST OF ANNUAL BEDDING PLANTS



During April, May and June we have thousands of flowering and ornamental annual plants. Write for 100 prices, naming kind and size wanted.

BY MAIL.—We will pack and send prepaid the following plants excepting those from pots (3 inches or over), which cannot be mailed safely and must go by express, you to pay transportation charges. NO PLANTS SENT C. O. D. OR LESS THAN 50c WORTH.

For description see Flower Seed Department of this catalog

Agerantum— Blue or Mixed 3 for .20	Doz. .50	Larkspur—Mixed 3 for .20	Doz. .50
Alyssum— Sweet 3 for .20	.50	Kochia— 3 for .25	.60
Antirrhinum (Snapdragon) Mixed 3 for .30	1.00	Lobelia— Compacta or Trailing 3 for .20	.50
Named kinds (see page 59)		Marigolds— African—Tall, orange or yellow. French—Yellow, brown, striped or mixed 3 for .20	.50
Aster— Giant California or Giant Crego— White, pink, purple or mixed... 3 for .20	.60	Pansy— Choice plants, blooming age... Routledge Giants in bud and bloom .....	.60 .75
Candytuft— Lavender or white 3 for .20	.50	Petunias— Single Ruffled, mixed Each .7 Rosy Morn—Pink bedder ..... .6 Single, pink or purple, large..... .7 From 3-inch pots ..... .20	.75 .50 .75 2.00
Carnation— Named varieties (see page 58)		Named varieties, page 59.	
Chrysanthemum— Named varieties (see page 58)		Phlox— Annuals mixed 3 for .20 Hardy perennial, page 63.	.60
Cosmos— Single—Mixed 2 for .15 Double Crested—New—Mixed .. 2 for .15	.60 .75	Salvia (Scarlet Sage).— Tall or dwarf 2 for .15 3-inch pots ..... .20	.75 2.00
Cobea Scandens— From 2-inch pots From 3-inch pots	Each .20 2.50	Scabiosa— 3 for .20	.60
Coleus— Choice colors, 2-inch pots Choice colors, 3-inch pots .....	.20 2.50	Salpiglossis— Grandiflora, mixed colors 3 for .20	.60
Dracena Palm— Small 50c; large, 18 inches and up, 75c to \$1.50.		Stocks— Mixed or separate colors 3 for .20	.60
Fuchias— See page 57.		Verbena—Mammoth— Mixed 3 for .20 From 2-inch pots ..... .. .15	.60 1.50
Geraniums— (See collections, p. 57) By color only. Single or double varieties in scarlet, salmon pink, light pink or white. From 3-inch pots in bud From 4-inch pots, blooming age... From 4-inch extra select plants in full bloom .....	.20 .25 .30	Vinca— Variegated, from small pots Variegated, from large pots	2.00 2.50
Pelegonium (Lady Washington) ....	.30	Zinnias— Double Giant Mixed 4 for .25 Separate colors 4 for .25	.50 .60
German Ivy— Trailing .....	.15		
Heliotrope— Blue; strong trans- planted plants 3 for .25 From 3-inch pots From 4-inch pots .....	.75 .20 .25		

PLANT TUBS OR JAPANESE KEGS
Filled with large flowering plants and vines for
porch or garden display \$2.50 to \$3.00
Empty Jap. Kegs Each \$1.00

REMEMBER, we are not offering you little seeding plants, pulled from the seed beds. Our plants are strong, healthy transplanted plants from flats or pots. No order of plants filled of less than 50c.

HARDY PERENNIAL FLOWERING PLANTS

LARGE STOCKS—LOW PRICES.—We are in a position to supply unlimited quantities at special prices and you will find our plants are strong and well rooted. Our prices must not be compared to many lists, for our plants are all hardy, field grown, worth double the average stock sold. Limited space will not permit us to list all varieties we can supply. Ask for any special varieties wanted.

PRICES.—All prices postpaid—10 times the each price is dozen price
Express or call orders 5c each or 50c doz. less.



Artemisia (single stem)

Anemone

JAPANESE.—These beautiful Windflowers are one of the most important hardy plants. They begin blooming early in August and continue in full beauty until cut down by hard frost. Excellent for bouquets, lasting for days when cut; 2½ to 3 feet. Each 30c; collection of 3 kinds 75c

WHIRLWIND.—Best large pure white, semi-double.

QUEEN CHARLOTTE.—Lovely flowers, beautiful pink.

RUBRA SUPERBA.—Lovely rosy-red; large, free flowering

ANEMONE-SAINT BRIGED.—Their fine cut foliage and pretty red, blue, pink and white flowers make them one of the most popular spring flowers. 12 to 18 in. high. March to May. Mixture only. Plants, each 30c; 3 for 75c

Alyssum

GOLD DUST (Saxatile Compactum).—Large heads of golden yellow flowers in May and June; silvery foliage; fine for rockeries; 10 to 12 inches.

Each 25c; 3 for 60c

Aquilegias

The Columblines are one of the most elegant and beautiful of hardy plants, producing their graceful spurred flowers on stems rising two feet or more above the beautiful divided foliage, and are highly prized for cutting; June to September.

MIXED.—Very choice. Long spurred sorts. Each 30c; 3 for 75c

Artemisia Lactiflora

Elegantly cut, dark green foliage, with many long-stemmed sprays or panicles of Hawthorn-scented, creamy white Spirea-like flowers. In bud they look like tiny pearl beads. They work in nicely with other cut flowers. August and September. 4 to 6 feet. Each 30c; 4 for \$1.00

Asters—Hardy, Fall Flowering

Michaelmas Daisies.—Among the showiest of our late-flowering, hardy plants, giving a wealth of bloom during September and October. They grow freely in any soil. Fine for cutting; 3 to 6 feet. LAVENDER, WHITE, ROSE and BLUE.

Each 25c; doz. \$2.50

Ameria

SEA PINK OR THRIFT.—Dwarf plants with 9-in. wiry stems of rosy pink flowers from early until late. Very hardy and useful in the rockery.

Each 25c; doz. \$2.50

Aubrietia (Wall Cross)

Neat tufts of foliage, smothered during spring and early summer with gorgeous pink to purple flowers. Fine for planting in rock crevices or on walls. 4 to 6 in. Plants, each 30c; 3 for 75c

Arabis

Rock Cross.—One of the most desirable of the very early spring flowering plants for edging and the rock garden. Forms a dense carpet, completely covered with pure white double flowers; 6 inches.

Double White—Each 20c; doz. \$2.00

Bellis Perennis

MAMMOTH.—Extra large flowers in White or Pink only. Each 25c; doz. \$2.50

Coreopsis

LANCEOLATA GRANDIFLORA.—Popular hardy plants. The flowers are a rich golden yellow, of graceful form and invaluable for cutting; June; 1½ feet. Each 25c; 3 for 65c

Canterbury Bells

(Campanulas—or Bellflowers)

One of the most popular hardy garden plants on account of the beautiful clusters of long-stemmed, dainty yet large flowers. They are very showy.

CALYCANTHEMA (Cup and Saucer Canterbury Bells).—A beautiful form of this favorite flower. (See cut, next page.)

Blue, Rose or White. Each 25c; doz. \$2.50

Chrysanthemums

Hardy Garden Sorts.—We offer four colors. Field-grown plants. YELLOW, RED, PINK or WHITE. Each 25c; 4 for 85c

FOR NAMED JAPANESE AND ENGLISH SORTS see page 58.

Doronicum

One of the most effective and very early spring flowering perennials, growing about 2 feet high, producing a profusion of Marguerite-like golden yellow flowers of much beauty and elegance.

Each 20c; doz. \$2.00; Large 30c

Digitalis

(Foxglove)

Old-fashioned, hardy, desirable plants with broad foliage and showy flowers borne on spikes. June and July; 4 to 6 feet. Each 25c.

Hardy Perennial Flowering Plants—(Continued)

NOTE.—Ten times the each price is the dozen price. Prices prepaid.

Delphinium

(Hardy Larkspur)

These are deservedly one of the most popular subjects in the hardy border, bold, attractive and highly prepossessing plants of easiest culture; perfectly hardy; 4 to 6 feet. Fine for cut flowers, June to November; when the first blooms are faded, cut all foliage close to the ground and a second crop will come. (See cut.)

CHOICE MIXED, all shades.

Each 20c; doz. \$2.00

GOLD MEDAL HYBRIDS.—Unquestionably the finest strain of hybrids from the best named varieties. Very large, two-foot flower spikes, in beautiful shades of lavender, light and dark blue.

Each 25c; doz. \$2.50

BELLADONA.—A free and continuous bloomer; flowers clear turquoise blue; very beautiful; long flower spikes.

Each 25c; doz. \$2.50

BELLAMOSUM.—Same as above; rich deep blue.

Each 25c; doz. \$2.50

FORMOSUM.—Dark blue, white centers; an old favorite; 3 to 4 feet high.

Each 25c

GIANT ENGLISH VARIETIES.—(See cut page 43.) Choice plants raised from our Prize Winning English Giants, strong medium size clumps, 50c postpaid. Extra large field clumps, \$1.25 each; by express only.

Forget-Me-Not

(Myosotis)

PALUSTRIS.—A variety that is hardly ever out of flower; useful in a shady spot in the border.

Each 25c; doz. \$2.50

Gaillardia

(Blanket Flower)

Among the showiest and most effective of perennial plants, blooming continually from early summer on through the season. Grows 2 feet high. Flowers about 3 inches across, dark red in center with rings of crimson and vermilion encircling same on a golden yellow ground.

GRANDIFLORA.—Each 25c; 3 for 60c.

PORTOLA HYBRID, NEW.—A superb new strain, bears flowers of much larger size on long upright stems, the color ranging through shades of bronzy red shading to golden yellow. Splendid new cut flower.

Each 35c; 3 for \$1.00

Geum

A showy border plant, growing about 18 inches high and producing all summer and fall brilliant double scarlet flowers in large clusters. This new variety is a fine advance from the older sorts heretofore grown. We consider this the finest red flowering hardy plant.

MRS. BRADSHAW, Double.—Scarlet 25c.

LADY STRATHEDEN, golden yellow, 25c.

Gypsophila

(Baby's Breath)

Fine, delicate foliage. Minute white flowers borne in enormous quantity in open panicles during summer months. Be sure and have a few plants of this for cutting, as it works up beautifully in bouquets of other flowers; 3 to 4 feet.

PANICULATA.—Good roots 25c; extra large 35c.

Helenium

Hardy perennials, bearing in profusion during summer and fall, beautiful flowers for display or cutting. Your choice, each 25c.

RIVERTON BEAUTY.—Massive spreading heads of deep golden yellow flowers, with dark core; 4 to 6 feet.

RIVERTON GEM.—Old gold changing to wall flower red. August and September; 4 to 6 feet.

FEED YOUR PLANTS.—You must supply "feed," in other words, fertilizer, if you want the best results. Read about "Marvel" and "H. Q." page 30.



Delphinium (Plant and Flower Spike)

Heuchera

SANGUINEA (Coral Bells).—A compact bushy plant of robust constitution and easy culture, bearing during July and August graceful sprays of coral-red flowers in great profusion. Fine for cutting.

Each 25c; doz. \$2.50

Hypericum

(St. John's Wort)

GOLD FLOWER.—Of drooping, trailing nature. Fine for rockeries, etc. Free flowering. Rich golden-yellow; beginning in June.

Each 20c; doz. \$2.00

Hollyhocks

DOUBLE OR SEMI-DOUBLE, in WHITE, PINK, SCARLET, YELLOW, or MIXED.

Each 25c; doz. \$2.50

Iberis

HARDY CANDYTUFT (Sempervirens).—Pure white flowers, March to June; 8 to 12 inches; fine for edging.

Each 25c; doz. \$2.50

Lavender

VERA.—The true, sweet fragrant lavender. Flower stems always in demand.

Small plants 20c; large plants 25c to 50c each

Primrose Primula

ENGLISH PRIMROSE.—Pretty low growing plants bearing large numbers of beautiful flowers very early in the spring and having the old-fashioned cowslip fragrance so dear to the heart of every Englishman. The flowers are in a wide range of rich colors from golden-yellow to deep crimson maroon.

SEPARATE COLORS

Vulgaris.—Single, canary-yellow. Each 25c

Glencoe.—Single, long stems, large clusters of flowers, burnt orange, yellow eye. A new, rare color. Each 30c

Lavender.—Double flowers, lovely. Each 25c

White.—Double flowers, very fine. Each 30c

Mixed Hybrids. Each 25c; 5 for \$1.00

Poppy

NUDICAULE (Iceland Poppy).—A beautiful class of hardy poppies. Flower stems about a foot in height, bearing elegant cup-shaped flowers, ranging in color from white to scarlet, but most valuable in the yellow and orange shades. Valuable for cut flowers, lasting well when cut.

Iceland, Mixed, All Colors, each 25c; doz. \$2.50

ORIENTAL.—Fine subjects for massing or planting singly in the hardy garden; 3 feet. They make a wonderful show when in bloom. May and June.

Goliath.—Large, bright scarlet.

Oriflamme.—Gorgeous orange-scarlet.

Salmon Queen.—Delicate salmon pink.

Pentstemon

ENGLISH EXHIBITION.—A splendid strain of this popular hardy plant with large spikes of bloom in a wide range of color from white to dark red. Mixed Colors Only. Each 25c; doz. \$2.50

Rudbeckia

(Golden Glow)

Flowers beautiful golden-yellow; very double. Marvelous continuity of bloom from June till late fall; 6 to 8 feet. Small plants 25c; large 35c

Saxifraga

UMBROSA (London Pride).—A low-growing, spreading sort, throwing up slender stems a foot high of pretty pink flowers in dainty clusters; small, dark evergreen leaves. A fine border for banks or rockeries. Each 20c; doz. \$2.00

MEGASEA.—Very hardy, flowers rose-pink; leaves broad, round, deep green; 1 foot. Pretty flowers; very early. Each 25c; doz. \$2.50

TUNICA.—Flowers soft pink, blooms all summer. Fine for rockery. Each 25c

Shasta Daisy

Very large daisy-like flowers, often measuring 4 to 5 inches across, having three or more rows of petals of the purest white. Flowers produced in great profusion on long strong stems.

Each, small 20c; \$2.00 doz.; large 25c
Clumps 35c to 50c

Scabiosa

CAUCASICA.—A choice hardy plant, thriving in any situation and producing fine umbels of beautiful lavender-colored flowers all season, 18 inches high. Each 35c; 3 for \$1.00

Saponaria

SOAP WIRT (Ocyroides).—Dwarf, fine leaved, with small bright pink flowers from May to August. 8 inches. Fine for rockery or edging.

Each 25c; doz. \$2.50

Sweet Williams

They produce a wonderful array of vivid colors in fancy patterns. Flowers in flat clusters, very showy and effective; 18 inches; are at their best during June and July.

ENGLISH VARIETIES.—Mixed. Each 25c

NEWPORT PINK.—Rose pink. Each 30c

Tritoma

PFITZER.—The ever-blooming Flame Flower or Red Hot Poker. Immense spikes of rich orange-scarlet flowers standing three to four feet high, produced all summer long. Each 35c.

Valeriana

GARDEN HELIOTROPE.—Desirable plant (3 ft.). Its showy heads of flowers are cut as soon as they fade; it will bloom most all summer.

COCCINEA RUBRA.—Rose-pink flowers.

Each 25c

Phlox

Among the hardy perennial plants no class is of more importance than the Phlox, succeeding in almost any soil and position, and flowering through a long season. Excellent for cutting and decorating

Prize Collection Phlox Plants

Your choice, select plants, each 25c; doz. \$2.50.

Athis.—Light salmon, violet eye; tall.

Baron Von Dedem.—Deep pink, suffused orange.

Beacon.—Brilliant cherry-red, showy flower.

B. Comta.—Rich Burgundy red; beautiful.

Deutschland.—Brilliant dark orange scarlet.

Europa.—One of the finest white; carmine eyes.

Evelyn.—Lovely soft pink; large flowers.

Goliath.—Bright cerise with a darker eye.

Hondu.—A lovely soft pink white halo.

Lavender Queen.—Large spikes of dark lavender.

Millie Von Hoboken.—Rose-pink shaded with salmon; deep eye.

Miss Lingard.—Waxy white, large blooms.

Creeping Phlox

SUBULATA (Moss Pink).—Early spring, moss-like evergreen foliage. Excellent for rockery.

WHITE, LILAC or ROSE-PINK. Each 25c

Pyrethrum

Persian Daisy.—One of the most valuable of our early summer flowers; charming shades of color, and wonderful lasting properties as a cut flower; they flower in May and June.

SINGLE; MIXED.—Each 25c; doz. \$2.50

HYBRIDIUM FL. PL.—New strain of double and semi-double flowers in new colors, blooms early and late; superb. Each 35c

Veronica

RUPESTRIS.—A fine rock plant, growing 3 or 4 inches high, thickly matted deep green foliage, hidden in spring under a cloud of bright blue flowers. Each 25c

Viola

VIOLA JERSEY JEM.—New and best in its class. Flowers large, nicely ruffled; continuous bloomer. A real beauty. Violet blue. Strong plants.

Each 35c; doz. \$3.50

Violets

Price, not less than 3 for 50c; 6 Sorts \$1.00
or \$1.75 Doz.

LADY HUME CAMPBELL.—Large double blue.

CALIFORNIA.—Single, deep violet blue.

PRINCESS OF WALES.—Flowers single, of gigantic size; color, a very rich shade of blue.

PEACOCK.—Charming variety; has lovely flowers of white, shaded with light blue.

DOUBLE RUSSIAN.—Double rich purple flowers.

MARY D. EVANS.—Beautiful, double, lavender.

Wall Flower

DOUBLE ENGLISH.—A fine old hardy garden plant seen in every English garden. Grows about 18 inches high and produces early in the spring, rich colored spikes of bloom in various shades of yellow and brownish red.

Yellow, Red or Crimson.

Each 25c

Mixed, all colors.

Each 20c; doz. \$2.00

GLADIOLI BULBS make a beautiful display when in bloom and are of the easiest culture and really not expensive, as they multiply rapidly.

BEAUTIFUL HARDY LILIES

These are the most fragrant, beautiful and stately of all flowers produced from hardy bulbs. We list only the hardy varieties that will give planters much pleasure and happiness. Ideal locations are in the shrubbery or herbaceous border, where the roots are sheltered from the hot sun. Groups of six or more lilies of a kind, here and there in such situations are most effective. Large isolated clumps or beds of the varieties Auratum, Henryi, Speciosum, Tigrinum, etc. are also very beautiful. They should be planted 6 to 8 inches below the surface in light soils, or 4 to 5 inches below in heavy soils; in the latter case the bulbs should be surrounded by sand to facilitate drainage.

SUCCESS WITH LILIES is not difficult if you give proper attention to the preparation of the soil. They should be planted in a rich loose loam or sandy soil that is well drained. Lilies do not like wet feet. Well-drained soil is very important for best results. If your soil is heavy and not well drained, dig deeply and work in a liberal amount of sand and peat moss. For fertilizer use H. Q. Sheep Guano with Bone Meal, but all fertilizer must be thoroughly mixed with the soil so as not to come in contact with the bulbs.



Lily Auratum

AURATUM (The gold-banded Lily of Japan).—Strong, sturdy grower, profuse bloomer. Large open, handsome white flower, thickly dotted with crimson and a gold band through the center of each leaf. Very fragrant. Prices: Medium-sized bulbs (8-9). Each 25c; large bulbs (9-10), each 40c. Mammoth size (11-13), each 60c.

A-PLATYPHYLLUM.—Larger than the Auratum; same type flower; color cream white, lighter band and white dots. The giant of the lily family. Very handsome.

Large bulbs 50c.. Mammoth 60c.

SPECIOSUM RUBRUM.—A beautiful hardy, easily grown variety; flowers: white ground, suffused deep rose, dotted with crimson, reflexed petals, free bloomer and hardy. Very popular. (See back cover.)

Large bulbs (8-9), each 35c. Mammoth bulbs, each 50c.

SPECIOSUM MAGNIFICUM.—Similar to the above, but of a deeper, richer color, frosted white, dotted and suffused crimson red.

Large bulbs, each 60c. Medium bulbs, each, 50c.

SPECIOSUM ALBUM.—Beautiful white flowers of great substance with a greenish band in the center of each petal; 3 to 4-foot stems, with 3 to 12 flowers per stem.

Large bulbs, each 65c.

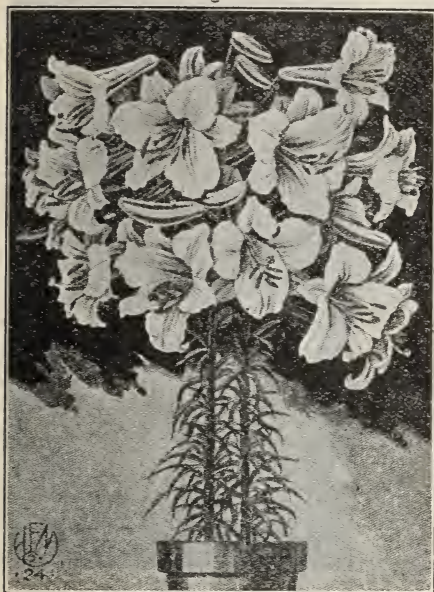
HANSONI (Golden Turk's Cap Lily).—A rare and fine lily. Blooms in June and early July, the flowers appearing in large clusters. Color bright golden yellow with small brown dots. Anthers orange-red. Very hardy.

Select bulbs, each 60c.



Candidium Lily

You will be pleased with our Lily Bulbs. Much larger than most houses offer. You'll get fine flowers the first year from our large size bulbs. All prices are postpaid.



Regal—A Royal Lily

MYRIOPHYLLUM or **REGALE**.—A magnificent new lily from China. Grows 4 to 6 feet high, bearing handsome fragrant white trumpet-shaped flowers; flushed lavender pink outside and the lower petals tinged primrose-yellow. It is a hardy lily and is one of the finest novelties offered in many years. It will thrive, increase in size and number of flowers in any good, well-drained soil. The fragrance is delightful and fascinating, somewhat like a "Gardenia." (See cut.)

PRICES.—Small, blooming age, each 20c; medium 25c; large 40c; Jumbo size 60c.

REGAL LILY SEED Per Pkt. 25c; oz. \$1.50; 4 oz. \$4.00; write for quantity prices.

HENRYI (The Yellow Speciosum).—Native of China. One of the best lilies for garden. Rich apricot yellow, free bloomer and sure to grow. Large bulbs, 60c. Medium 50c.

CANDIDUM (Madonna Lily).—The ever-popular, fragrant, snow-white, hardy garden lily. Grows 4 to 5 feet high and blooms in June.

Prices: Medium, 25c; large, 35c; jumbo, 50c.

UMBELLATUM GRANDIFLORUM.—A very hardy and satisfactory early flowering lily of easy cultivation. Flowers are large size, trumpet shape and borne upright with 3 to 5 to a stem. Color, orange, suffused with brilliant red; very showy and free flowering (2 to 3 ft.). Each 40c

GIGANTEUM (Easter Lily).—Pure pearly white, deliciously fragrant, and remarkably free bloomer. Perfectly hardy and if planted in the garden it blooms in June.

Large bulbs, each 35c; 3 for \$1.00.

GIANT TIGER LILY (Improved *Tigridium Splendens*).—Very hardy and sure to bloom. Large, single flowers, rich orange, freely marked with small black dots. Prices, each 20c; large, 25c



Mt. Hood Lily

DOUBLE TIGER LILY (*Tigridium* Fl. pl.).—Handsome double flowers on strong stems; very showy and satisfactory. Of same color as the single Tiger Lily. Double, each 25c; large 35c.

MT. HOOD (*L. Washingtonianum*).—A beautiful lily, native of Oregon; flowers of good size, of open trumpet form; ivory white, tinted with lavender-pink; grows 3 to 5 feet high; very fragrant; perfectly hardy and will thrive in most any location in sun or shade. Few lilies surpass it. Select farm grown bulbs.

Medium, 20c; large, 30c; extra large, 50c.

PARDALINUM.—Robust growth, producing freely clusters of reflexed, pendant flowers of a bright scarlet, shaded orange and maroon. Give this variety shade and plenty of moisture.

Each 40c; 3 for \$1.00

ELEGANS PLENO.—The double and semi-double flowers are borne erect on strong stems and are of a striking chrome orange suffused with apricot. Each 40c.

CALLA LILIES

The Calla is one of the best winter flowering plants for room culture, needing little care beyond abundant water and an occasional washing of the leaves to keep them free from dust. Plant one bulb in a 6-inch pot. As soon as it starts growing bring to the light and heat and the result will be most satisfactory.

YELLOW ELLITIANA.—This new Yellow Calla is of marvelous beauty; flowers are large, rich, dark golden yellow; often 4 to 5 inches across the mouth; leaves are beautifully spotted with white. Bulbs in stock from November to May. (See cut.) Select bulbs, each 30c; 3 for 75c

WHITE CALLA.—The large, fine, white flowers are easily grown indoors. Bulbs in season from September to May.

Choice bulbs each 25c; extra large, 35c; 3 for \$1.00

In making new beds, spade deeply and mix into the soil a liberal amount of natural fertilizer and a little bone meal, also plenty of sand, leaf mold or peat moss (see page 37) if the ground is heavy, for Lilies do best in rich loamy or sandy soil that is well drained.

GERMAN IRIS (Germanica)

These are among the most desirable and easiest grown of our spring flowering hardy plants, producing in May and June their showy flowers of exquisite coloring, combining the richest and most delicate tints. Note: "S" for standard or upright petals; "F" for lower or falling petals.

PRICES.—Your choice (except as noted) 20c each, 3 for 50c

ALCAZAR.—"S"—Deep lavender violet. "F"—Dark red violet. Each 40c

AMBASSADEUR.—"S"—Lavender suffused bronze. "F"—Velvety maroon tinged purple; very large and handsome. Each 40c

DARIUS.—"S"—Yellow. "F"—Blue.

ECHESECKS.—"S"—Lavender. "F"—Violet. Charming.

LIBERTY.—Lovely shade of lavender blue.

LORELEY.—Perfect shape; yellow and marine blue.

LEUT A. WILLIAMSON.—"S"—Violet. "F"—Royal purple. Each 25c

ORIFLAMME.—Giant, purple, blue and violet.

PALLIDA DALMATICA.—Clear lavender blue, giant flowers.

PROSPER LAUGHER.—Rich bronze and ruby. 25c.

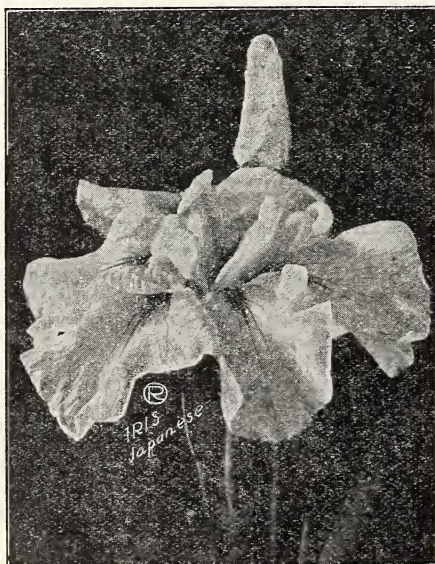
QUEEN OF MAY.—Charming; soft rosy lilac to pink.

SHEKINAH.—Lemon yellow; one of the best. 25c.

ENGLISH IRIS—Anglica

Beautiful, attractive and worthy of a place in every garden. Their large, peculiarly shaped flowers remind one of the rare orchids. We have not offered the English Iris for several years but we were fortunate this season to secure some very choice acclimated bulbs of good size. The English come into bloom after the Spanish and Dutch and are very desirable and very beautiful. We offer the finest variety of all sorts. Set the bulbs in clumps three inches apart each way and three inches deep.

KING OF THE BLUES.—Rich velvety blue of grand size and substance. Price.—Each 10c; 3 for 25c; doz., 75c.



Japan Iris



Dalmatica
Folius Variegatis

DALMATICA-VARIEGATIS.—Variegated foliage; very attractive flowers; lavender, delightfully fragrant. Each 35c; small clump 75c

JAPAN IRIS—Kaempferi

These magnificent Iris are among the most beautiful of our summer-flowering plants, and are becoming more popular each season. They commence blooming about the middle of June and continue for five or six weeks. Many of these flowers measure from 10 to 12 inches in diameter; most all are beautifully veined and with contrasting colors, producing effects that are truly marvelous. We have some of the finest varieties obtainable.

Oriental Collection

Wonderful large flowering kinds of rare and rich colors. Grown under our own supervision and true to description. Strong roots, each 35c; doz. \$3.50.

NO. 1.—A rich deep crimson, mottled and marked with white. Very attractive.

NO. 2.—Navy blue with a purple center. A rich shade that will please you.

NO. 3.—A beautiful combination of colors. The attractive flowers are mottled and veined red, purple and white.

NO. 4.—Large and handsome, crimson-purple with blue shadings, blotched in the center.

NO. 5.—A lovely white beautifully marked and edged sky blue.

NO. 6.—Rich purple, overlaid with navy blue with rare orange blotches.

NO. 8.—A beautiful color combination. Dark violet with a yellow center.

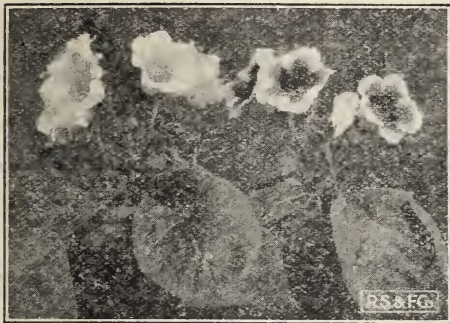
NO. 9.—A stately flower, redish purple, handsomely mottled and veined with white.

NO. 10.—A lovely combination of white and purple, densely veined and suffused.

NO. 11.—A large, well-formed flower. Dark lavender with yellow center.

NO. 12.—Pure white petals, creamy yellow center, anthers and flower lightly veined violet.

PEAT MOSS (soil or humus)—We can supply in any quantity. It's NOT A FERTILIZER but improves the soil. See page 32.



Gloxinas

GLOXINIAS

One of the most charming and effective of summer flowering bulbs for the conservatory or house culture. They produce gorgeous colored flowers in many shades of color, including white, red, purple, blue, etc., etc. The throat of each flower is usually marked with white and bordered likewise (see illustration). They do best in an equal mixture of peat, loam and sand.

Mixed colors only, choice bulbs, each 45c; doz. \$4.50

TIGRIDIA**Tiger or Shell Flowers**

Showy, bulbous plants suitable for the mixed border or beds, which can be handled the same as Gladiolus. They grow about 18 inches high and produce their showy flowers throughout the summer. New flowers every day after they start to bloom. They are becoming very popular. Plant 6 inches apart and 2 inches deep.

Your choice, price 25c each; \$2.50 doz.

PAVONIA GRANDIFLORA.—Petals bright crimson, center spotted yellow.

CONCHIFLORA.—Petals golden yellow, center spotted red.



Single White Tube Roses (from photo)

**LILY OF THE VALLEY**

One of the most charming spring flowering plants.

IMPORTED PIPS.—For forcing indoors or planting outside. Note.—In season from Nov. to March.
3 for 25c; doz. 75c; 100, \$5.00



Dicentra Bleeding Heart

DICENTRA

(Bleeding Heart)

An old-fashioned favorite. Perfectly at home in any part of the hardy border, and especially valuable for planting in the shade. Choice roots, 60c; large, 75c.

TUBE ROSES

(Bulbs in season from March to June)

One of the most delightfully fragrant and beautiful of the summer flowering bulbs. Plant after all danger of frost is past in any good, loose, rich well-drained garden soil. Each 15c; doz. \$1.00



WATER LILIES

We are not cataloging a long list of named varieties this year but offer four colors of the best variety for display or cut flowers. **PRICES**—Your choice of **WHITE**, **LIGHT PINK** or **DARK PINK** at \$2.00 to \$3.00. **YELLOW** or **RED**, \$3.00 to \$7.50. You will be pleased with our varieties. Of course the higher priced varieties are more rare and up-to-date sorts.

ALL SHIPMENTS BY EXPRESS.—Bulbs can be mailed if necessary by adding 10 cents extra.

Order early and we will send at proper planting time. May to July.

PLANTING DIRECTIONS

Hardy lilies may be planted on the Pacific Coast from March to August, depending on local weather conditions.

Mosquitos and Goldfish.—There will be NO mosquitos where pools are stocked with goldfish.

How to Plant.—Boxes, 2 feet square and 1 foot deep, should be filled with good, rich garden loam, well compacted. Well decayed manure may be used to enrich the compost—1 part to 3 of soil. A 6-inch pot of bone meal to each box is very useful also. In planting, simply push the root horizontally into the mud until the growing end is flush with the surface. Another method is to spread the soil over the entire bottom of the pool, thus giving more root room to the plants.

Water lilies grow best where there is a foot of water over the plants and about the same amount of soil below. All pools should be made at least 2 feet deep; a 4-inch cement bottom and a 5-inch wall is advised. Tub culture is also successful.

MONTBRETIAS

Beautiful—Graceful—Very Floriferous

Quite rare and not generally known. Allied to the Gladiol. Perfectly hardy here, but should be given protection or removed where winters are severe.

They are very beautiful, bright and showy summer-flowering bulbs. Delightful for cutting for vases. Flowers freely produced on tall, slender graceful sprays. Height 18 to 24 inches. The improved varieties we offer are much larger and a great improvement over the old sorts. Plant 4 to 6 inches apart, cover 2 to 3 inches. Bulbs increase quite rapidly. (See illustrations.)

We offer six of the finest varieties. **Prices:** Each, 15c; 3 for 40c; doz. \$1.25.

CALIFORNIA.—A very fine pure yellow; good flower.

FIRE KING.—Scarlet-red; produces a fine flower spike.

GERMANIA.—Very attractive and pretty; red and yellow.

GOLDEN WEST.—A lovely golden-yellow, extra quality flower and free bloomer.

LORD NELSON.—Deep orange scarlet, externally crimson, yellow eye, large flower, very beautiful.

TALISMAN.—Flowers a beautiful rich dark scarlet.

SUPERB MIXED.—12 named kinds mixed. Each, 10c; 3 for 25c; dozen, 75c; \$4.00 per 100.



Montbretias

GLADIOLI BULBS IN MIXTURES

For those who are not so particular as to variety names, yet who want a wide range of the most beautiful shades and colors for mass planting or for cutting, we offer three separate grades.

ROUTLEDGE GOLD MEDAL MIXTURE.—An ideal mixture composed of the best named large flowering sorts grown separately and then mixed in the right proportions to make a magnificent display or for cutting the choicest blooms. **NO. 1 SIZE BULBS**, doz. 60c; 100 \$4.00; **NO. 2 SIZE**, 1½ to 1½ inch bulbs, doz. 50c; 100 \$3.50.

SUPERB CHOICE MIXTURE.—A wonderful mixture covering a wide range of colors. Unequaled for the price. **NO. 1 FIRST SIZE**, doz. 35c; 100 \$2.50. **SECOND SIZE BULBS**, full blooming age, doz. 25c; 100 \$2.00.

GLADIOLI SPECIAL

The best bargain ever offered in a mixture of choice named varieties in medium size (about 1 inch) bulbs that will give you nice flowers this summer and produce equal number of first or top size bulbs for the following year. **Price, 25 for 50c; 100 for \$1.50 (postpaid).**

PRICES ON GLADIOLI BULBS ARE POSTPAID

ROUTLEDGE SUPERB GLADIOLUS BULBS

The most popular and desirable of all garden bulbs. Nothing else that we know of grows and blooms so readily in any soil or climate. With ordinary care and attention they make a display in the garden unequalled by any other bulbous flower.

Culture.—For prize-winning blooms plant in rich soil, cultivate well and give plenty of water. Can be planted at any time from February to June 15. Plant 2 to 3 inches deep in heavy and 4 to 5 inches deep in light soil, 4 to 6 inches apart. Use "H. Q." brand Sheep Manure with a little "Marvel Q. A." Fertilizer, worked well into the top soil.

Prize-Winners—Rare, Rich and Wonderful

We offer on this and the following three pages a most carefully selected list of the new and most beautiful sorts at greatly reduced prices. Plant liberally. ALL PRICES POSTPAID.

NOTE.—The Gladioli bulbs we offer unless otherwise specified NO. 1 TOP SIZE, 1½ inches or more in diameter. NO. 2 SIZE popular with cut flower growers are 1¼ to 1½. NO. 3, 1 to 1¼. **SPECIAL PRICE LIST** on small sizes in 100 and 1000 lots only.

ALICE TIPLADY.—Very popular and a brilliant orange-saffron. Graceful stems and pleasing flowers. Each 5c; doz. 50c; 100 \$3.25

AMERICA.—Immense spikes of wide open flowers. Soft pink flushed with silver. Each 5c; doz. 50c; 100 \$3.25

ANNA EBERUS.—Rich, velvety rhodamine purple, large ruffled flowers, well placed on tall spikes. Anna's a beauty. Each 6c; doz. 60c; 100 \$4.00

ARDEN.—An early sort producing tall, graceful spikes of flowers well placed. An attractive shade of watermelon red. Each 5c; doz. 50c; 100 \$2.75

BREAK O' DAY.—Extra early, tall massive spike of soft lustrous La France pink. Each 6c; doz. 60c; 100 \$4.00

CARMEN SYLVIA.—A pure white with light lavender markings in throat. Tall, straight, slender stems; a grand sort. Each 8c; doz. 75c; 100 \$5.00

CRIMSON GLOW.—Flowers are large, wide open, fiery crimson; very bright and showy, and the best of the moderate priced reds. Each 6c; doz. 50c; 100 \$3.50

DR. F. E. BENNETT.—Peach red, overlaid with flame scarlet making a fiery red; giant, but graceful flowers; very attractive and unequaled. The best red. Each 15c; doz. \$1.50

DOROTHY WHEELER.—A beautiful flower of a delicate rose pink. The flowers are well placed on slender graceful stems. Dorothy will please you. Each 5c; doz. 50c; 100 \$2.75

E. J. SHAYLOR.—Of real merit. Flowers large and of a beautiful pure deep rose-pink. Winner of many awards. Fine cut flower variety. Each 5c; doz. 50c; 100 \$3.50

EMPRESS OF INDIA.—Deep, dark red or maroon, with pure white stripe on the two lower petals. Each 5c; doz. 50c; 100 \$3.50

FLORA.—Clear, rich golden yellow, large flowers well placed on tall graceful stems. This yellow sort is unsurpassed in our estimation. Each 8c; doz. 85c; 100 \$6.00

GOLDEN MEASURE.—Immense tall spikes of golden yellow flowers. King of the yellows. Each 10c; doz. \$1.00; 100 \$7.00

FREE LEAFLET

How to grow and care for Gladioli bulbs free with each order if asked for.



GLORIANA.—Immense flowers of a glowing salmon-orange color; throat yellow; tall erect spikes of wide open flowers that make a gorgeous display. Highly recommended.

Each 10c; doz. \$1.00; 100 \$7.00

HALLEY.—Salmon-pink, overlaid with a light rosy tint, enhanced by pale yellow center.

No. 1, each 5c; doz. 50c; 100 \$3.50

GLADIOLUS—Continued

LOS ANGELES.—A wonderful producer of full-sized flower spikes that are tall and graceful. Flowers of a beautiful, exquisite clear, bright pink, with deeper pink feathering in the throat.

Each 7c; doz. 60c; 100 \$4.80

MASTERPIECE.—Should be in every collection. Rose-red, suffused amaranth purple. Called American Beauty Rose color; fine form and habit.

Each 10c; doz. \$1.00

MISS SPOKANE.—A rich shade of orange, slightly deeper in the throat; 6 to 7 open flowers at a time. A beautiful variety.

Each 5c; doz. 50c; 100 \$3.50

MRS. FRANK PENDLETON.—Very popular, for it's one of the best. Flowers large flesh pink with a large bright dash of crimson on the two lower petals. Bright and attractive.

Each 5c; doz. 50c; 100 \$3.50

MRS. H. E. BOTHINS.—Light, geranium-pink, heavily ruffled scarlet center. One of Diener's most perfect creations and the loveliest color combination.

Each 6c; doz. 60c; 100 \$4.00

MRS. LEON DOUGLAS.—New. Handsome, stately variety. Giant, graceful flowers 5 to 6 inches across on tall spikes. Ground color, rich salmon-pink overlaid and beautifully penciled brilliant flame-scarlet; pale lemon throat, slightly specked ruby.

Each 10c; doz. \$1.00

MRS. FRANCES KING.—Very large, open flowers of great merit, light scarlet or flame color.

Each 5c; doz. 50c; 100 \$3.50

MRS. F. C. PETERS.—One of the best; many large flowers open at a time; splendid form and vigorous grower. Beautiful lavender blossoms, with a soft crimson blotch.

Each 10c; doz. \$1.00; 100 \$7.00

ORANGE GLORY.—Brilliant orange color, throat lighter; very rich and striking color. Large, ruffled, beautiful and distinct.

Each 10c; doz. 85c; 100 \$6.00

PRIDE OF LANCASTER.—Brilliant orange salmon; rich, fiery, orange throat. Flowers beautifully ruffled on tall, compact spike.

Each 5c; doz. 50c; 100 \$3.00

PRINCELY.—Very choice white, fine grower and lovely flowers of elegant form and style.

Each 6c; doz. 60c; 100 \$4.00

PRINCE OF WALES.—Free flowering; rich apricot suffused with salmon and orange. A lovely flower.

No. 1, each 5c; doz. 50c; 100 \$3.25

PURPLE GLORY.—Tall spikes of magnificent giant flowers, with beautifully ruffled petals. Color, a velvety deep, rich maroon, almost purple.

Each 10c; doz. 85c

PYTHIA.—Very distinct. The immense wide open flowers are perfect in form and gracefully placed in tall, strong spikes. Color rich bright red, suffused carmine. Extremely showy.

Each 10c; doz. 85c; 100 \$6.00

PEACE.—Very popular, extensively planted. Large white flowers, lilac feathering in the throat.

Each 5c; doz. 50c; 100 \$3.50

RICHARD DIENER.—Lovely salmon-pink, suffused creamy yellow in the center. The most brilliant, glistening pink to date. The flowers are ruffled and well set.

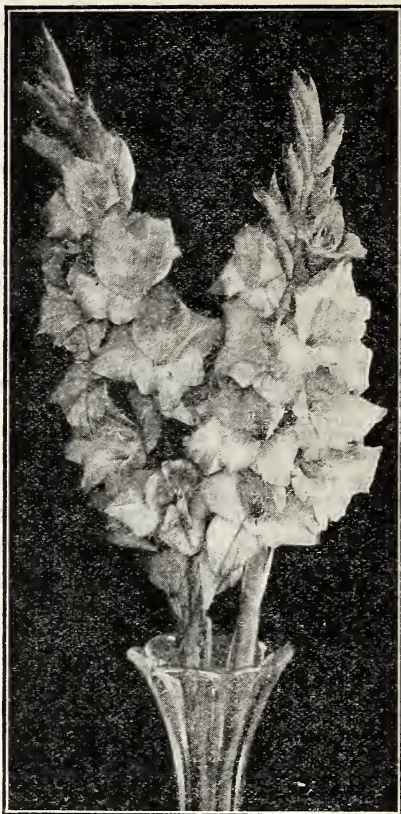
Each 10c; doz. 85c; 100 \$6.00

ROSE 1910.—Very large flowers of bright pink, feathered white; a fine sort.

Each 5c; doz. 50c; 100 \$3.00

SCHWABEN.—Magnificent, large rich yellow. Throat marked with a rich carmine blotch. Elight to 10 wax-like flowers open at a time. Very popular.

No. 1, each 6c; doz. 60c; 100 \$3.50



Prince of Wales

SWEET LAVENDER.—A rare, rich color; a combination of light violet and pink, suffused yellow in the throat; garnet blotch.

Each 8c; doz. 85c

VIOLET GLORY.—Large flowers of rich deep violet, purple throat. Extra good.

Each 10c; doz. 80c; 100 \$6.00

VIRGINIA (Scarlet Princeps).—Extra strong spikes of massive scarlet blossoms; six or more open at one time. A flaming torch that attracts attention from a distance. Gorgeous and extra fine.

Each 5c; doz. 50c; 100 \$3.50

No. 2 Bulbs.—Doz. 35c; 100 \$2.50

WILBRINK.—Lovely flesh pink, creamy yellow shadings, immense blooms. Very beautiful. Early.

Each 5c; doz. 50c; 100 \$3.50

WHITE WONDER.—Mammoth white blossoms, often shows a blush of pink; grand.

Each 6c; doz. 60c; 100 \$5.00

YELLOW GEM.—Lovely shade of yellow. Beautiful, perfect flowers on graceful stems.

Each 5c; doz. 50c; 100 \$3.25

*Toledo, Wash., April 19, 1930.
Routledge Seed & Floral Co.*

Dear Sirs: Gladioli bulbs received and I am delighted with them. Much larger than I expected.

MRS. L. J. COBERLY.

HIGHEST QUALITY "GLADS" AT THE LOWEST PRICES ever offered. Take advantage of these low 1931 prices and buy liberally

CHOICE HERBACEOUS PAEONIES

Fine, hardy plants, rivaling the Rose in perfection of bloom, color and fragrance. They are at home in any climate or soil, but thrive best in deep, rich, well-drained loam. They make a gorgeous display. The Paeony is perfectly hardy. Plant in the fall in early spring. Press firmly into the soil and do not cover the crown of the roots over 2 or 3 inches.

Our collection of varieties is unsurpassed. Every one is a beauty of sterling merit. We send out extra good roots with strong eyes.

ASA GRAY.—Large imbricated bloom. Beautiful pink sprinkled with tiny dots of lilac. Each \$1.00

CHARLES McKELLIP.—Among the bright red varieties this one is most highly prized. Large and handsome. Each \$3.50

DELACHI.—A handsome flower. Color rich red. Each \$1.00

DUC DE WELLINGTON.—Lovely flower. Color white, shaded sulphur and blush. Each 75c

EDULUS SUPERBA.—Beautiful peach-pink flowers of fine size freely produced. Early. 75c each.

FELIX CROUSE.—Immense crimson scarlet flowers. One of the finest red sorts. \$1.00 each.

FESTIVA MAXIMA.—Color snowy-white flecked with an occasional clear purple spot on edge of center petals. Very fragrant; a glorious flower. 75c each.

GRANDIFLORA.—(Richardson) Shell pink. One of the best in its color. Each \$1.50.

KELWAYS MEDIA.—A deep clear pink of exceptional beauty. Perfect form. Each \$2.00.

MARCELL DESSERT.—Flowers large and handsome, creamy white. Each \$1.50.

MME. DE VERNVILLE.—A delightful globular flower, creamy white with a dash of purple at center. Each 75c.

MONS. JULES ELIE.—Deep rose-pink. Immense flowers. One of the finest. \$1.00 each.

OFFICINALIS RUBRA.—The old-fashioned early blooming crimson sort. 75c each.

PRINCE OF DARKNESS.—This will please anyone who prefers large dark rich red. It's a beauty. Each \$1.00.

ROSA BONHEUR.—This prize winner is a giant in size and perfect in style and form. A delightful soft pink. Each \$5.00.

NOTE.—If you want some particular variety, write for prices. We can supply 150 named varieties.



Paeony Festive Maxima

Single and Japanese

The single paeonies are becoming very popular.

ALBIFLORA.—Very free bloomer. Single white. \$1.00

BLACK BEAUTY.—A very showy and desirable single dark red. Each \$1.50.

FAVORITE.—A wonderful bloomer and a large brilliant flower. Single crimson. Each \$2.00.

SOME-GANOKO.—One of the most popular Japanese varieties. Perfect in form and size, color dark red. Each \$5.00.

POMPON DAHLIAS

A compact growing class of Dahlias thriving with ordinary cultivation and producing with great freedom, small perfectly double flowers of neat rounded form, upon long wiry stems. These Dahlias have become very popular with people who buy cut flowers in our store. They lend themselves to any kind of floral decoration and last remarkably well after being cut.

ACHILLES.—Base of petals flesh color, tipped with pink.

CLARA HARSH.—Perfect blooms of yellow, tipped with crimson.

DARK EYE.—White, lavender tips and center.

EUREKA.—Rich bronze, shading to yellow, excellent stems.

FLAME.—Bright orange scarlet. Extra.

LASSIE.—Neat little flower on fine stem; yellow base, tipped rose.

GLOW.—Old rose on coral. Beautiful.

LITTLE BELLE.—Compact little flower of clear mauve pink on fine stems.

ROSA WILMOTH.—A fine rose pink on ideal stems; fine flowering.

TOM THUMB.—The smallest Pompon we have seen. Rich garnet red on perfect stems.

Prices: Your choice of above 35c each, \$3.00 doz.



Pompon Dahlias

Dahlias—Continued

Each variety we offer is selected for perfection of flower, freedom of blooms and long, strong stems that hold the flowers upright. Our list of varieties will please you.

PEONY FLOWERED DAHLIAS

The form and style of this class vary greatly; some have flat, rounded petals; others are pointed and twisted in most fantastic style. All are beautiful and produce a profusion of flowers on long, slender stems; fine for cutting.

PEONY FLOWERED

CITY OF PORTLAND.—The finest yellow. Giant flowers; long erect stems; clear rich canary yellow. Each 50c.

GARNET KING.—Gigantic flowers of rich, deep garnet on good stems. Free flowering. Each 50c.

JAMES C. GILL.—A wonderful cut flower, extra long stems. Color rich golden orange toned with red. Each 35c.

MEYERBEER.—Giant flower on strong, erect stems; dark crimson, toned purple. Each 50c.

MRS. ROWENA FAIRCHILD.—Free flowering; beautiful soft pink of giant size. Each 35c.

OREGON SUNSET.—Gigantic blossoms; golden yellow suffused bronzy crimson, strong stems. Each 50c.



Peony Dahlia

SQUANTO.—Reddish violet, growing redder at base. Free flowering; strong stems. Each 35c.

THE ORIOLE.—A giant; a striking combination of burnt orange, red and yellow, often tipped white. Each 50c.

CHOICE NEW CACTUS DAHLIAS

In the following list we offer only sorts of special merit, the most perfect in form of flower, profusion of bloom and with upright stems that show the flowers above the foliage, all of which makes them the most desirable for cutting or garden display.

CACTUS DAHLIAS

BALLET GIRL.—Immense, incurved flowers on good stems. Orange, edged white. Each 50c.

BRIDE'S BOUQUET.—Perfect, full flowers of pure white, on long stems. Perfect cut flowers. Each 50c.

CHEMARS MASTERPIECE.—Huge incurved blooms of orchid pink. Deep double blooms; good stems. Each \$4.00.

CORAL.—Center chrome yellow, edged deep rose red; incurved. Each 35c.



Cactus Dahlia

CRIMSON KINK.—Large crimson with incurved petals; an extra fine flower. Each 50c.

CROWN POINT.—Giant lavender blooms, often 10 inches across. Tall, vigorous plants. Each \$3.50.

ESTHER HUNT.—Giant blooms of vivid Oriental Orange. Very fine dahlia. Each \$1.00.

F. W. FELOWS.—Giant orange cactus on good stems; slightly incurved. Each 50c.

GOLDEN WEST.—Large flower on erect stems; deep rich yellow overlaid with orange. Each 50c.

MARATHON.—Large incurved flowers on strong stems; color deep rich purple. Each 35c.

MRS. ETHEL SMITH.—Giant creamy white, shading to lemon. Long straight stems. Each 50c.

MULTNOMAH.—Perfect, full centers of rich scarlet, heavily tipped with white. Each \$1.25.

COLLARETTE DAHLIAS

Very desirable class, having long stiff stems and very free flowering. Unequalled for continuous garden display, and for cut flowers. Flowers single, 3 to 4 inches across and have a collar of small petals of a contrasting color around the center disc.

COLLARETTE DAHLIAS

ARIA.—Soft rose, zoned white in center; white collar. Each 35c.

DIADEM COLLARETTE.—Beautiful rosy pink, white collar. Each 35c.

MT. LASSEN.—Fiery red with yellow collar; free flowering; long erect stems. Each 35c.

MME. E. PORRIER.—Deep purple, suffused with lighter shades; collar white. Each 35c.

SWALLOW.—Beautiful white collarette; long erect stems, fine for cutting. Each 35c.

SONATE.—Starry flowers on good stems; light orange red; yellow collar. Each 35c.

PLANT DAHLIAS IN AN OPEN, SUNNY LOCATION AS THEY DO NOT FLOWER FREELY IN THE SHADE.

DAHLIAS—(Continued)

SHOW OR QUILLED DAHLIAS

In this section we have the Dahlias of our grandmother's garden, but of improved form and size, with richly colored flowers of rounded form and quilled petals. Excellent for cut flowers.

AMERICAN BEAUTY.—Large blooms of gorgeous wine crimson; a splendid sort. Each 35c.

CREAMO.—Gigantic flowers on long, erect stems. Partly quilled, creamy yellow. Each 35c.

DIADEM.—Brilliant rich crimson; large and perfect on strong stems. Each 35c.

DREER'S WHITE.—Large, perfect quilled dahlia of pure white. Each 35c. ..

LUCY FAWCETT.—Large, sulphur yellow, striped carmine rose; long erect stems. Each 35c.

TILLAMOOK.—Immense, quilled flowers of delicate blush, deepening to rose. Good stems. Each 35c.

POMPON DAHLIAS on Page 71



Show Dahlia

DECORATIVE DAHLIAS

In this class of Dahlias will be found those sorts which florists and gardeners prize most highly for cut flowers. These Dahlias are characterized by their strong, erect growth and their large, well formed, handsome flowers on strong, stiff stems far above the foliage.

AL KORAN.—A giant on long, erect stems; color goldenrod yellow suffused amber on older petals. Each 50c. ..

AMUN RA.—Gigantic flowers on erect stems; copper and orange suffused with gold and reddish bronze. Each 75c.

BRILLIANT.—Hybrid show. Intense fiery scarlet on long erect stems. A fine cut flower. Each 75c.

CHALLENGE.—Ideal for cutting; color, gold suffused and tipped bright garnet crimson.

CLAUDE HARLAN.—Giant, full double blooms of soft blush lavender. Very free flowering. Each 50c.

DAKOTA.—Giant flowers on strong, erect stems, light orange red. Each 35c.

EL CAMINO REAL.—Giant flowers on erect stems; deep velvety crimson. Extra fine red. Each 50c.

FLORENCE FINGER.—A giant flower of lavender rose on long erect stems. Each 50c.

GOLDEN EMBLEM.—Giant golden yellow flower on long, erect stems. A wonderful flower. Each \$2.50.

JERSEY'S BEAUTY.—A giant on long, erect stems; beautiful new shade called Erosion pink. Each 75c.

MURAT.—Apricot, suffused and edged coral pink. Giant flowers on long, erect stems. Each 75c.

ORANGE BEAUTY.—Giant blooms on long stems; brilliant fiery scarlet with a golden sheen. Each 35c.

Moscow, Idaho, April 21, 1930.

Routledge Seed & Floral Co.

Gentlemen: I wish to tell you I have been slowly adding to my Pythia bulbs since my first two bulbs came out, and in a year at all favorable, have blossoms measuring more than six inches from tip to tip. I always take a blue ribbon prize on them when entered at the Glad. Show. I consider them the finest light red Glads I have ever seen.

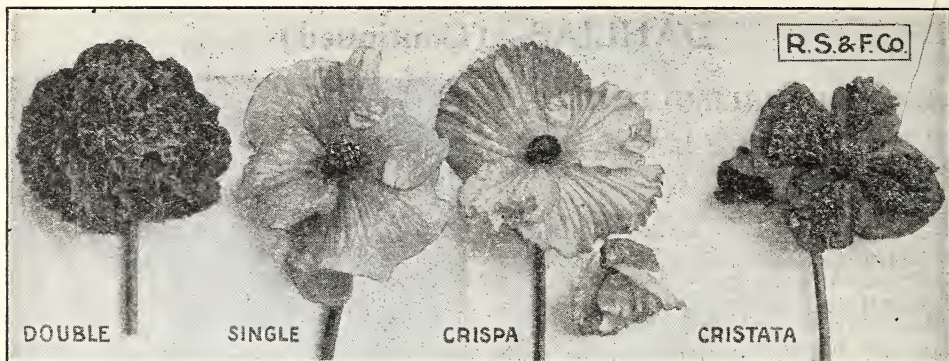
MRS. GILLIES D. HODGE.

DAHLIA SPECIALS—CHOICE VARIETIES UNNAMED

For those who do not care for the names, we offer CACTUS, DECORATIVE and PEONY Dahlias—in separate colors, at very low prices. These lots are made up out of surplus stock and small lots of not sufficient quantities to catalog, but the mixture is of only choice sorts, many new, high priced.

PRICES: Your choice of class and color in CACTUS, PEONY and DECORATIVE varieties in shades of white, rose and pink, red or yellow and orange, labeled by class and color only, at 20c each; \$2.00 dozen. MIXED, ALL COLORS and varieties, 15c each, \$1.50 dozen.

NOTE.—When planting, remove the label and fasten it to a small stake to mark the location of the bulb and keep the name for later reference.



Tuberous Rooted Begonias

TUBEROUS ROOTED BEGONIAS

Excellent for pot culture or planting in lawn beds and borders. They should be grown more extensively than they now are, for they require very little attention and are in flower, outside, from early summer until heavy frosts; inside, potted, they are a constant and prolific bloomer. They will thrive either in mild sunshine or in shade, but when fully exposed to the sun the beds must be well watered in hot weather. Add peat moss to the soil.

CULTURE.—Before planting keep the bulbs in a moist, warm place, to start them, so that you can tell which is the top. Plant a foot apart in beds or 1 bulb to a 4-inch pot inside, cover about 1 inch. We offer only first size large bulbs.

DOUBLE FLOWERED.—Separate colors in pink, scarlet, orange, yellow, red or bronze. (See illustration.) Each 30c; doz. \$3.00.

GIANT SINGLE FLOWERED in separate colors of pink, scarlet, orange, yellow red or bronze. Each 25c; doz. \$2.50.

GIANT CRISTATA.—(See illustration.) The most beautiful of all. Flowers with ruffled edges and crested petals. Often called the ruffled double Begonia. Mixed colors only, each 40c; doz. \$4.00.

GIANT CRISPA.—Beautiful large single flowers with fluted and ruffled edges (see cut). Mixed colors only, each 35c; doz. \$3.00.

CANNAS

Everyone knows the value and beauty of Cannas for bedding. Their large, massive, tropical-looking leaves and magnificent flowers cannot be equaled in any other plant of such easy culture. Plant outside after danger of frosts is past, 18 inches apart, in rich, deeply dug, well-prepared bed (12 plants required for a 6-foot circular bed).

PRICE.—Your choice following kinds: Each 25c; doz. \$2.50. postpaid. We send growing plants

AMBASSADOR.—Immense crimson scarlet flowers; bronze foliage. The bronze-leaved President.

AMERICAN BEAUTY.—Deep rich carmine, green foliage.

CITY OF PORTLAND.—Large bright pink, green foliage.

EVOLUTION.—Apricot yellow, flushed pink.

FLORENCE VAUGHAN.—Golden yellow heavily dotted with scarlet.

HARMONY.—Deep red, bronze foliage.

FIREBIRD.—Large bright scarlet, green foliage.

KING HUMBERT.—Orange scarlet with bronze foliage. Best and most popular.

KING MIDAS.—Large golden yellow flowers on stout footstalks.

MRS. PIERRE S. DU PONT.—Vivid watermelon pink, massive trusses of very large flowers. 30 cents each; \$3.00 per dozen.

METEOR.—Dark crimson, green foliage.

MOHAWK.—Red shaded carmine, bronze foliage.

NOKOMIS.—Deep crimson, bronze foliage.

ROSES GIGANTIA.—Rich dark pink, very large spikes.

THE EXPRESS.—Bright scarlet, green foliage. Very free flowering.

THE PRESIDENT.—Immense crimson flowers, green foliage.

VULCAN.—Cardinal red, very free flowering.

WYOMING.—Orange colored flowers. Bronzy purple foliage.

WINTZER'S COLOSSAL.—Immense scarlet spikes, green foliage.

YELLOW KING HUMBERT.—Golden yellow, scarlet throat, massive green foliage; a giant in growth.



Canna Plant

POTTED PLANTS.—After danger of frost, we have at our store large, potted Cannas that will give quick results. By express (not mailable), each 30c; doz. \$3.00.

CHOICE OREGON-GROWN ROSE BUSHES

We make a specialty of Rose Bushes and sell thousands upon thousands. Our bushes are strong, healthy, field-grown stock, well rooted, and will produce a profusion of bloom the first season, if given good care and cultivation. We enjoy the reputation of supplying the best stock at reasonable prices. The following list is the choicest of American and European introductions. ALL OREGON-GROWN; WORTH DOUBLE EASTERN OR CALIFORNIA.

FOR YOUR CONVENIENCE—CLASSIFICATION UNDER COLORS

This year we have arranged our Roses under their predominating color, which appeals to us as the most convenient way. While the descriptions are necessarily short on account of limited space, you will get class (read abbreviation below), color and main points of merit.

SHIPPING AND DELIVERY

We can fill orders for our large 2-year-old Rose Bushes any time from October to May.—Around Portland the best planting time is during favorable weather from NOVEMBER TO APRIL, THE EARLIER THE BETTER.

BY EXPRESS.—We ship 2-year-old Rose Bushes by express, unless otherwise instructed.

BY PARCEL POST.—By request we will wrap, pack and mail Rose Bushes for 10c each or 75c doz. extra. DON'T FORGET THE EXTRA POSTAGE AND PACKING WHEN WANTED BY MAIL.

ABBREVIATIONS

T.—TEA.—One of the best classes of Roses and truly ever blooming. They are hardy in this section although during our coldest weather and in cold sections they should be protected with a covering of fir boughs, straw or burlap.

H. T.—HYBRID TEA.—Most of these are as free flowering and as constant bloomers as the teas, and are hardier, stronger growers.

H. P.—HYBRID PERPETUAL.—The hardiest of all roses, vigorous in growth, free blooming.

WHITE—CREAM

FRAU KARL DRUSCHI.—This giant white rose is without doubt the most popular variety of the day. For years we had been waiting for a hardy, strong-growing pure white garden rose when this superb variety appeared. Buds of immense size, egg-shaped, with heavy waxy petals opening into a mammoth snowy white bloom of great refinement. Rank growing, every shoot bearing a flower. Hardy as an oak tree. Can be planted anywhere. Each 65c.

KAISERINE AUGUSTA VICTORIA (H. T.).—A strong, vigorous grower, producing buds and flowers of enormous size; color, pure white. A very popular variety. Each 65c

MARCIA STANHOPE.—Very massive pure white flowers on fine stout stems produced with much freedom. Noted for its wonderful sweet scented flowers. One of the finest white roses extant. Each \$1.00.

WHITE KILLARNEY.—This elegant new rose first made its appearance in a well-known New England nursery, where it sported from the famous Irish Rose, Killarney, now grown more extensively for cut flowers than any other variety. However, we have found the new visitor far superior to its parent as regards vigor, size of flower and ability to resist disease. Each 75c

PINK ROSES

COLUMBIA (H. T.).—Of strong, vigorous growth and free-blooming. Flowers of good size; perfect in form in bud and when fully expanded. A pleasing shade of rose-pink; fragrant. Each 75c

FELICITY (H. T.).—Brilliant rose pink, base of petals primrose. Wonderfully free blooming and strong healthy grower. Each \$1.00

IMPERIAL POTENTATE (H. T.).—A new rose of sterling merit. Strong, vigorous, healthy grower. Beautiful buds opening into a well formed, solid and lasting flower of a rich rosy carmine. Sweetly scented. Each \$1.00

LOS ANGELES.—A flame pink, toned with coral and shaded gold at base of petals. Buds long pointed and lasting flowers. Each 75c

QUESTION? If we are sold out and unable to supply variety ordered, shall we substitute one of equal value and the same color, correctly labeled, or send short and refund?

WHITE MAMAN COCHET (H. T.).—Has all the good qualities of Maman Cochet, but pure white, equally large and fragrant, hardy and productive. One of the very best white ever-blooming roses for bedding, flowering all season long and until late in the fall. Each 65c



Golden Emblem

LADY ASHTON (H. T.).—One of the finest pinks of a rich, deep, silvery tone; flowers large. Each 75c

MRS. W. C. EAGEN (H. T.).—Soft rose pink with silvery shadings and golden yellow base. Fine buds and large handsome flower. Each 75c

MRS. CHARLES RUSSELL (H. T.).—Strong; canes stout and thornless; handsome foliage, flowers very large and very full. Color bright rich cerise, shaded to scarlet at center. A continuous bloomer all season through. Each 75c

MADAME CAROLINE TESTOUT (H. T.).—Portland's famous brilliant pink rose. Each 60c

MRS. JOHN LAING (H. P.).—Very free flowering, all season. Color soft, delicate pink, with a satiny tinge. Each 65c

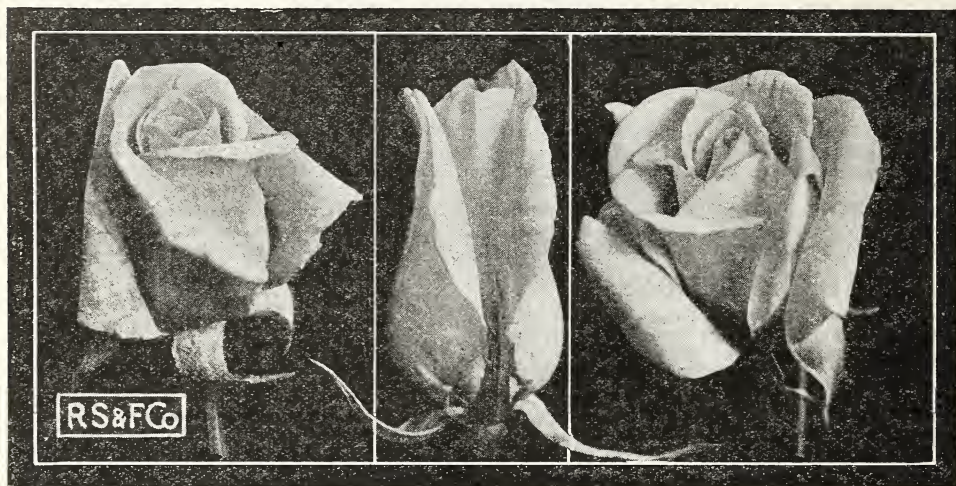
PREMIER.—Massive dark pink flowers; robust grower; fine foliage; flowers keep well. Each 75c

BE SUCCESSFUL—

Prune your rose bushes when planting—don't leave over 8 to 12 inches of top growth. Try it; you'll get better results.

OREGON GROWN ROSES—Continued

PLEASE NOTE.—Should we be sold out and unable to obtain some certain varieties of Roses ordered, others similar in color and type and CORRECTLY LABELED will be substituted, UNLESS OTHERWISE ORDERED.



Rev. Page Roberts

Madame Ed Herriot

Opheelia

TRICOLORED ROSES

Combination Shades of Orange, Gold, Red, Pink, Yellow

BETTY (H. T.).—Beautiful coppery-rose color, overspread with golden-yellow; fragrant. Each 75c

GORGEOUS (H. T.).—Flowers large and full; freely produced on stiff, erect stems; color deep orange yellow, flushed copper yellow, and veined with reddish copper. Each \$1.00

IRISH FIREFLAME (H. T.).—Orange crimson buds opening into single blooms, coppery yellow flushed with orange crimson. Fine for cutting. Each 75c

IRISH ELEGANCE (H. T.).—Bronze orange in the bud, opening into large single flowers of a lighter shade. Vigorous growing and perpetual blooming. Each 75c

INDEPENDENCE DAY (H. T.).—Sunflower gold smeared and stained coppery bronze and orange. Finely formed, fragrant and very free. One of the outstanding new sorts. Gold Medal N. R. S. Each \$1.00

MADAME BUTTERFLY (H. T.).—A sport from the popular new rose Opheelia, which may be said to be a glorified form of that fine variety. In this new sort all the colors are intensified, making it a rich harmony of bright pink, apricot and gold. The unopened buds are especially distinct with their lovely shades of Indian red passing to golden yellow at their base. Each 75c

MADAME EDOUARD HERRIOTT (T.).—Long, pointed buds, a deep coral red color, shaded to yellow at the base; flower of a rare shade of rosy scarlet, flushed with shrimp and apricot tints. Excellent. Each 75c

MADMOISELLE CECILE BRUNNER (Dwarf Polyanthus).—Exquisite little roses, buds dainty, painted, bright salmon pink, yellow center. Each 75c

MRS. DUNLAP BEST (H. T.).—A wonderfully strong growing and free blooming new rose from England which we regard as one of the very finest sorts. Color deep reddish apricot shaded to golden yellow at base of petals. Leathery bronze colored foliage clothes the long stout canes. A splendid garden and decorative rose. Each \$1.00

OPHELIA (H. T.).—The most popular cut flower variety today. Buds orange salmon, opening to perfect full flower of dainty cream pink; super rose. Each 75c

PADRE (H. T.).—Coppery scarlet, flushed with yellow at base of petals. Long, stout, upright canes hold flowers erect. Exceedingly free-flowering. An excellent bedding variety from England that has made a fine record. Each \$1.00

QUEEN ALEXANDRA (H. T.).—Face of petals deep vermilion with orange colored base. Reverse of petals old gold. A rare new color in roses. Each \$1.00

REV. F. PAGE ROBERTS.—Buds long and pointed, of a rich copper color stained red on the outside; opens into a large golden yellow flower. Highly prized in this country because of the novel color and lovely shaped buds. Each \$1.25

SHOT SILK (H. T.).—Cherry cerise overshot with salmon-orange. Clear yellow at base of the petals. Of fine size and form. A gold medal rose. Each \$1.00

SOUVENIR DE GEORGES PERNET (H. T.).—Oriental red, tips of petals touched with cochineal. Entire flower faintly shaded with yellow. Flowers very large and full on strong stout stems. Each \$1.00

WILLIAM F. DREER (H. T.).—Soft shell pink, base of petals rich golden yellow. Sometimes the entire flower is covered with golden suffusion. Each 75c

WILLIAM KORDES.—Buds rich capucine-red on a golden yellow ground opening into very large flower of golden yellow striped with red. An outstanding variety because of the distinctive color combination. Vigorous growing and remarkably free in bloom. A variety which we recommend to all lovers of fancy roses and there are many of them these days. This fine rose is a Holland production, whence many very good sorts have come of late years. Do not overlook William Kordes. Each \$1.25

Don't Forget Postage

IF ROSE BUSHES ARE ORDERED SENT BY PARCEL POST SEND 10c EXTRA. 75c PER DOZEN, FOR PACKING AND POSTAGE. OTHERWISE WE'LL SEND BY EXPRESS, COLLECT.

Make your Rose Bushes grow and bloom profusely by applying a liberal amount of "H. Q." Sheep and "Marvel." See page 30.

DON'T FORGET POSTAGE.—10c extra, 75c per doz. extra for packing and postage on Rose Bushes.

RED, SCARLET AND CRIMSON

CHATEAU DE CLOS VOUGEOT (H. T.).—A very rich, fiery scarlet shading to deep velvety crimson; delightfully fragrant. Each 75c

ETOIL DE HOLLAND (H. T.).—Rich scarlet of wonderful brilliancy. Long pointed buds and large open flower. Splendid for bedding. Each 1.00

GENERAL McARTHUR (H. T.).—A grand crimson scarlet. Elegant long buds and the flowers are very fragrant. Each 75c

GENERAL JACQUIMENOT (H. T.).—This fine dark red is still indispensable in any garden. Each 65c

H. V. MACHIN (H. T.).—A splendid new exhibition rose; grand scarlet crimson flowers of wonderful size and form. The buds are long and pointed, unusual in a red rose. Each 75c

HADLEY (H. T.).—Color beautiful rich, bright red. Very free and constant. A shapely, graceful bud and flower. One of the most charming and distinctive red roses. Each 75c

HOOSIER BEAUTY (H. T.).—Flowers are dark crimson, shaded with maroon and velvied with black; beautiful buds with fine, pointed shape; large double flower. Each 75c

HUGH DICKSON (H. P.).—This superb Irish Rose stands in the front rank as a producer of the very finest brilliant crimson-scarlet roses. Of strong, vigorous growth. Each 65c

JOHN RUSSELL.—Deep velvety crimson overlaid with black sheen. Large perfectly formed flowers on stout stems. This new English rose looks very promising with us. We like it for its strong free habit and hardiness. Gold Medal, Bagatelle Gardens, Paris. Each 1.25

LORD CHARLEMONT (H. T.).—Rich crimson, flushed with carmine. Long pointed buds of exquisite formation. Sweetly scented. One of the finest new red roses. Each 1.00

PRINCE CAMILLE DE ROHAN (H. P.).—Very dark rich velvety crimson, passing to intense maroon, shaded black. One of the darkest roses and very handsome. Each 65c

RED RADIANCE.—Of the same general habits as the Radiance rose but with flowers of a bright ruby red color. Of the easiest growth possible in a rose and gives general satisfaction. Each 75c

SENSATION (H. T.).—Bright scarlet-crimson, shaded maroon. Flowers very large, very fragrant, and come on fine strong stems. Excellent for cut flowers. Price 1.65

ULRICH BRUNNER (H. P.).—Extra large bold flowers, full and globular; color, rich glowing crimson, elegantly flamed with scarlet; a good grower and free bloomer. Each 65c



Souv De Claudius Pernet

YELLOW ROSES

ANGELE PERNET (H. T.).—Orange yellow shaded with apricot; long-pointed buds opening into large striking flowers; highly prized. Each 1.00

CONSTANCE (H. T.).—Buds long and pointed, of a rich orange-yellow streaked with crimson, passing to large, full flowers of bright cadmium-yellow. Each 1.00

DUCHESS OF WELLINGTON (H. T.).—Intense rich saffron-yellow; very large and of fine form; beautiful in bud as well as open flower. Each 75c

GOLDEN EMBLEM (H. T.).—Golden yellow flowers of finest size and form. Glossy holly-like foliage. Superb new sort. Each 1.00

GOLDEN OPHELIA (H. T.).—Rich golden yellow flowers in greatest freedom on stout wiry stems clothed with glossy dark green foliage. Beautifully formed buds. Each 1.00

LADY HILLINGSDON (H. T.).—Deep apricot yellow, long pointed bud. Each 75c

MRS. AARON WARD (H. T.).—Deep golden-orange, shading out to creamy-yellow at edge of petals. Beautiful deep buds. Each 1.00

MISS LOLITA ARMOUR (H. T.).—A magnificent new rose of a rich chrome yellow, shaded to coppery orange. Flowers large, of finest form, on stout canes. Each 1.00

SOUV. DE CLAUDIUS PERNET (H. P.).—Very large deep golden yellow flowers on stout, thorny canes. Gold Medal rose. Each 1.00

SUNBURST (H. T.).—A giant yellow rose; long, beautiful buds, large full gorgeous flowers cadmium-yellow with orange and copper. Each 1.00

BABY OR DWARF POLYANTHA ROSES

A type of roses which grow only a foot or two high, bear large clusters of flowers possessing great lasting qualities, and are always in bloom. They are fine for massing in beds, for bordering large rose beds or planted singly on the lawn. Perfectly hardy.

YOUR CHOICE OF THE FOLLOWING, EACH 75c; DOZ. \$7.50

BABY RAMBLER (Dwarf-bush type).—Not over 18 inches high, producing large trusses of light crimson flowers; clean, dark-green foliage.

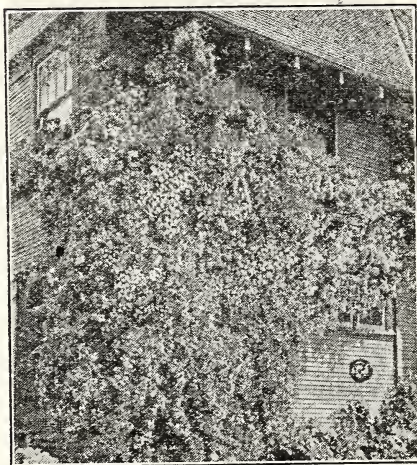
MRS. W. CUTBUSH.—Clusters of pretty double, bright pink flowers, freely produced in panicles; always in bloom

BABY DOLL (Tip Top).—Clusters of golden yellow flowers tipped with cerise. An absolutely new combination of color in this class of roses. Beautiful for cutting.

BABY TAUSENDSCHON.—Pale pink flowers, becoming reflexed with carmine-rose; very beautiful

SHOULD BUSHES ARRIVE VERY DRY, bury tops and all in damp ground, or immerse in a tub of water for a few days. It will benefit them very much.

BEAUTIFUL CLIMBING AND PILLAR ROSES



Dorothy Perkins, 30 Ft. High, Thousands of Blooms.
A Popular Variety

HARDY PILLAR ROSES

The following Roses all grow vigorously, and are profuse bloomers and very hardy anywhere. The flowers are borne in large clusters.

Your Choice following—60c each, if not otherwise marked:

CRIMSON RAMBLER.—This grand rose is well known and very popular; of rapid growth.

DOROTHY PERKINS (See illustration).—Flowers in immense cluster, beautiful shell pink.

DR. VAN FLEET.—Flowers large with high built center and petals beautifully undulated and cupped. Beautiful shade of shell pink. Handsome bronze green foliage. A rank climber, immune from mildew. Each 75c

TAUSENSCHON (Thousand Beauties).—Entirely distinct. Large single flowers fully 3 inches across; a beautiful shade of soft pink, shaded carmine and produced in trusses of from 10 to 15 flowers. Each 75c

AMERICAN PILLAR.—Flowers saucer-shaped, three to four inches across and very lasting. They hang in immense clusters all along the branches, and make a remarkable sight, a veritable sheet of bloom. Color, clear bright, rosy pink.

PAUL'S SCARLET CLIMBER.—A wonderful new hardy climbing rose. The flowers are semi-double and produced in clusters, the plant being literally covered with brilliant vivid scarlet flowers from top to bottom. It is of strong climbing habit. Each 75c

SILVER MOON.—A magnificent white climber, large, semi-double blooms of good substance, with golden stamens. Foliage is abundant, bronze-green, and is immune to mildew. Each 75c

SHOWER OF GOLD.—A beautiful new climber of the Wichuriana type from the gardens of the famous English rosarian, William Paul. It is of very vigorous growth, with dense, glossy green foliage. Produces masses of golden yellow flowers in large clusters. Each 75c

Don't Forget Postage

If rose bushes are ordered sent by parcel post send 10c extra, 75c per dozen, for packing and postage, otherwise we'll send by express, collect.

Superb Climbing Varieties

CLIMBING AMERICAN BEAUTY.—Rampant climbing rose hardy as an oak tree, producing clusters of nicely formed double flowers of a rich rosy crimson color. Each 75c

CLIMBING GENERAL McARTHUR.—A climbing form of the fine red rose General McArthur. Splendid in every way. Each \$1.00

CLIMBING HOOSIER BEAUTY.—Handsome, rich crimson flowers shaded to pink. One of the best ever-blooming climbing roses yet produced. Each \$1.00

CLIMBING LADY ASHTOWN.—Large rose-pink flowers shaded to yellow at center. A continuous blooming climbing rose of the greatest merit. We recommend it most highly. Each 75c

CLIMBING LOS ANGELES.—A fine climbing form of the new Los Angeles. Shrimp pink and coral color. Each \$1.00

CLIMBING LADY HILLINGTON.—The golden yellow flowers, the bronzy red foliage and the strong arching branches, make this the most desirable pillar and porch rose of its color. Each \$1.00

CLIMBING MADAME BUTTERFLY.—A climbing form of the beautiful new rose Madame Butterfly. Rich shades of apricot and gold. A glorious climber. Each \$1.00

CLIMBING MAD. CAROLINE TESTOUT.—Counterpart of Portland's famous official rich pink rose that has no equal. Very free bloomer. ... Each 75c

CLIMBING MADAME EDOUARD HERRIOTT.—Coppery scarlet flushed with apricot. Strong, rapid climbing sort. Each \$1.00

CLIMBING SUNBURST.—A true pillar rose of strong growth, bearing freely very large cadmium yellow flowers. Each \$1.00



Climbing Madame Caroline Testout

SPRAY, PRUNE and FERTILIZE your roses each year and produce prize-winners. **NEW ROSE BOOK, "How to Grow Roses"** (by Pyle); 180 pages; \$2.25, postpaid.

BEAUTIFUL HARDY CLIMBING VINES



Polygonum Auberti

POLYGONUM AUBERTI

(Silver Lace Vine)

One of the most desirable flowering climbers we have ever grown. Of strong, vigorous, rapid growth and producing throughout the summer and fall long graceful sprays of small, white, delicate flowers. Clean, neat foliage. Perfectly hardy. The vine in the illustration made a spreading, 15-foot growth the first season and to the top of the house the next season. Trim off surplus growth each fall. Always free of insects.

Each, 75c; Extra Strong Roots, \$1.00

CINNAMON VINE

A beautiful vine of rapid growth, suitable for porches, trellises, etc.; pretty white flowers of cinnamon-like fragrance. Perfectly hardy. Vines die in the fall but come up rapidly early each spring.

Small roots, 20c; 3 for 50c; Large, 25c; 3 for 65c

HONEYSUCKLE

A beautiful climber, rapid grower and very desirable. Flowers very fragrant.

Your choice. Each, Small 75c; Large \$1.00

HALLEANA.—Very popular; almost evergreen; flowers white, passing to yellow.

BELGICA (Monthly Fragrant).—Flowers are large; color red and yellow; blooms all summer.

WISTARIAS

SINENSIS BLUE.—A very rapid growing, hardy climber; lovely long panicles of pale blue flowers, produced in the most wonderful profusion.

Each \$1.00; Strong vines, \$1.50

SINENSIS ALBA.—Like the preceding, but with beautiful white flowers in long panicles.

Each \$1.00. Strong vines \$1.50

MULTIJUGA.—Extra long panicles of deep blue flowers.

Each \$1.50

BOSTON IVY.—The popular climbing plant for covering brick, stone or cement walls, etc. Foliage rich olive green, turning to autumn tints in the fall. Strong plants, 50c; extra strong, 60c

VIRGINIA CREEPER.—Large, deep green foliage; red berries in the fall. Each 50c; extra strong 75c.

ENGLISH IVY.—Thick, leathery evergreen leaves. Each 35c.

BIGNONIA

RADICANS (The Trumpet Vine)—Grown in nearly every old garden. Orange-scarlet trumpet-shaped flowers almost all summer. A rank growing vine attaining a considerable height when given support. Each 60c.

CELASTRUS

SCANDENS (Bittersweet)—Glossy dark green foliage on long slender growths, covered in June with bright yellow flowers, followed by bright orange colored fruit which remains until winter sets in. Grows in either sun or shade. Perfectly hardy. Each 75c.

CLEMATIS

PANICULATA (Sweet-Scented Japan Clematis).—Of very rapid growth, quickly covering trellises and arbors with handsome, clean, glossy-green foliage. The flowers are of small size, pure white, and borne in profusion in September and October.

Each, 1-year roots, 35c; 2-year, 50c; 3-year extra strong, \$1.00.



"MAKE 'EM HOP."—If you will mix a cup full of "Marvel" Fertilizer with 5 pounds of "H. Q." Sheep and work both thoroughly into the soil around your climbers, you will get wonderful growth and lovely flowers. See page 30.

FRUIT TREES, BUSHES, VINES AND PLANTS

We are making a specialty of select fruit stock. This is an important branch of our business. Our manager has been in this line of work in Oregon for over 20 years.

OUR SHIPPING SEASON for the above is from November 1 to April 1. Some seasons May 1, although May is too late for best results. We advise late fall, open winter or very early spring planting while stock is dormant.

HOW WE SHIP.—Unless otherwise instructed, we pack safely and ship by EXPRESS OR FREIGHT, whichever is cheapest, and the buyer pays the charges.

BY PARCEL POST.—By cutting back or selecting small sizes we can send fruit trees by mail if necessary, but you must add 25c per tree or \$2.00 per doz. extra for packing and postage.

CARE OF STOCK UPON ARRIVAL.—If you are not ready to plant, dig a trench and "heel" in. If ground is frozen, put in cellar and keep roots damp.

CONDENSED PRICE LIST

APPLES

Summer, Autumn or Winter Varieties

	Each	Per 10
One year, 3 to 4 ft.....	\$.50	\$4.50
One year, 4 to 6 ft.....	.85	7.50
Two year	1.00	8.50
Three year, select.....	2.00	

CRAB APPLES.—Same prices as above.

PEARS

Your selection of any well known sorts.

	Each	Per 10
One year, 3 to 4 ft.....	\$.75	\$ 6.00
One year, 4 to 6 ft.....	1.00	8.50
Two year	1.25	10.00
Three year, select	2.00	

PRUNES

Your selection of any well known sorts

	Each	Per 10
One year, 3 to 4 ft.	\$.50	\$3.00
One year, 4 to 6 ft. ....	.65	5.00
Two year selected .....	.75c-\$1.00	

PLUMS

Your selection of any well known sort

	Each	Per 10
One year, 3 to 4 ft	\$.75	\$6.00
Two year, 4 to 6 ft.	1.00	7.50
3 to 4 year	2.00	

CHERRIES

Your selection of popular sorts.

	Each	Per 10
One year, 3 to 4 ft.....	\$.85	\$ 7.50
One year, 4 to 6 ft.....	1.25	10.00
Two year	1.50	12.50
Three year, select	2.50	

QUINCE 1.00

PEACHES AND APRICOTS

	Each.	Per 10
First grade, 1 year	\$1.00	\$ 7.00
1 year, 3 to 4 ft.....	.75	6.00

GRAPES

CAMPBELL'S EARLY, CONCORD AND WARDEN, black sorts, or DELAWARE AND EATON, red sorts, or NIAGARA, white Your choice. Prices—Two year, 25c; three year, 40c; selected extra strong, 50c each; 10 times the each price is dozen price. By mail, add 10c each, 50c per doz., for postage. Write for low 100 or 1000 prices.

CURRANTS

PERFECTION.—Large red CHERRY, FAY'S PROLIFIC and VICTORIA late, all red varieties and WHITE GRAPE, best white sort. Your choice 2-year transplants, 25c each; selected 2-year, 40c each; 10 times each price is doz. price. BY MAIL add 10c each or 60c doz. extra for postage. Low prices per 100.

GOOSEBERRIES

Same prices as CURRANTS above and same postage if wanted by mail. OREGON CHAMPION is the best market and home kind.

DEWBERRIES, LOGANBERRIES

Strong plants, 30c each; \$3.00 doz., postpaid. Write for low prices per 100 or 1000.

BLACKBERRIES

LAWTON, OREGON EVERGREEN or HIMALAYA GIANT. Strong plants, 25c each; \$2.50 doz. Postage 10c each or 50c doz. extra. Low prices per 100 or 1000

LA FRANCE-ST. REGIS and GOLDEN QUEEN.—Each, 25c; \$2.50 per doz. Postage extra.

RASPBERRIES

RED AND BLACK

BLACK CAP—Plum Farmer or Gregg. Strong plants.

RED—Cuthbert or Marlboro. Strong plants, 15c each; \$1.50 doz. Postage 7c each; 50c doz. extra. Write for low prices per 100 or 1000.

LA FRANCE-ST. REGIS or GOLDEN QUEEN—Each, 25c; \$2.50 per doz. Postage extra.

NUT TREES

ALMONDS—IXL, Nonpareil or Ne Plus Ultra. 1 year, 3 to 3½ ft., each, 75c; 10 for \$6.00; 100 for \$50.00.

FILBERTS

Popular and most profitable varieties. Prices: Each, 3 to 4 ft., 75c; 10 for \$6.50; 100 for \$45.00.

WALNUTS—English

The Franquette grafted on California black walnut roots.

Prices: 4 to 6 ft., \$1.75; 6 to 7 ft., \$2.25; 8 ft. select, \$2.75; 9 to 10 ft., extra strong and select, \$3.50. Write for quantity price.

**SELECTED
STRAINS****STRAWBERRY PLANTS****INSPECTED
CERTIFIED**

Our strawberries are carefully grown, trimmed and packed in the best manner to insure their arrival in good, fresh condition. If you want good, strong, healthy, vigorous plants, and true to name, send to us. Our prices are right; our plants are certified and O. K.

NEW OREGON.—One of the finest and most satisfactory strawberries ever introduced. It always looks bright, fresh and attractive. The berry is very large, firm and handsome; rich, dark red, extending to the center. The flavor is rich, sweet and delicious. For table use and canning it cannot be surpassed. The "Oregon" ripens early and continues in bearing until late in the season. Most popular and most profitable variety.

MARSHALL.—One of our best Western varieties and very popular wherever known. Marshall is one of the rich-red varieties that never fails to attract the eye and to satisfy the taste. It is deliciously sweet, generously prolific, and is in every way an ideal variety for extensive planting or home garden. Excellent for canning, as it holds its color, shape and flavor.

PRICE LIST.—Your choice of above varieties, **PREPAID**, doz., 30c; 50 plants, 85c; 100, \$1.50. **NOT PREPAID**, doz., 25c; 50 plants, 60c; 100, \$1.00; 1,000, \$8.00. Special prices in large lots.

MASTODON EBERBEARING.—A recent introduction that has created nation-wide interest. Mastodon is very prolific and the berries are extra large, choice, good color, and delicious flavor. Mastodon is a strong grower and plant producer. It fruits under all conditions and will give you berries in abundance from early spring until late fall. Mastodon is the last word in Everbearers and a moneymaker.

PRICES.—Prepaid, doz., 75c; 25, \$1.25; 100, \$3.00. Not prepaid, 100, \$2.50; 1,000, \$20.00.

Note.—Plants can be dug and shipped any time from November 1 to late spring.



Oregon Grown, Heavy Yielders

Progressive Everbearing Strawberries

Popular strawberries on account of their long fruiting season. They will yield a good spring crop, then take a short rest and then produce a large crop in the late fall when berries are scarce and high in price. Berries medium large, rather bright red in color and of excellent quality. Extremely hardy, bearing until the ground freezes. Most popular everbearing variety.

PRICES.—Doz., 50c; 25 plants, 75c; 100, \$2.00, prepaid. Not prepaid, doz., 35c; \$1.75 per 100; \$15.00 per 1,000.

ASPARAGUS ROOTS

MARY WASHINGTON.—The plants we offer have been grown from highest quality seed. (See page 4). Shoots or tips large, straight, dark green of excellent quality, with tips that fold closely until well out of the ground. Considered the best by marketmen.

PRICES: No. 1 Roots.—(Generally listed as 2-year). Prepaid, doz., 50c; 50 for \$1.00; 100 for \$1.50. Not Prepaid, doz., 40c; 100 for \$1.25; 1,000, \$8.00.

No. 2 Roots.—(Generally listed as 1-year). Prepaid, doz., 35c; 50, 75c; 100, \$1.00. Not Prepaid, doz., 25c; 100, 85c; 1,000, \$6.00.

Select 3-yr. Roots.—Prepaid, doz., 75c; 50 for \$1.50; 100 for \$2.50. Not Prepaid, doz., 60c; 50 for \$1.35; 100 for \$2.25.

HORSERADISH ROOTS

Plant in the spring 18 to 24 inches apart. Set the whole root small end down.

PRICES: 2 for 15c; 50c per doz.; \$2.00 per 100. Low prices by the 1,000. Crown Root.—Quick results, 15c each; doz., \$1.00.

RHUBARB**PIE PLANT—WINE PLANT**

Plant in the fall or early spring from 3 to 4 feet apart, in the richest soil you have, or can prepare.

RIVERSIDE GIANT.—Is a quick, very early grower, producing very freely giant, heavy stalks, that are exceedingly tender, brittle and of the finest flavor and color. A "peerless" rhubarb for home gardens or for commercial plantings.

We supply strong, healthy, divided roots, the only safe way. Roots from seed do not come true.

SINGLE EYE.—Postpaid, each, 15c; doz., \$1.50. Not postpaid, doz, \$1.25; 100, \$7.50.

DOUBLE EYE.—Postpaid, each, 25c; doz., \$2.50. Not Postpaid, each, 20c; doz., \$2.00; 100, \$10.00.

TRANSPLANTS.—Grown one year from single-eye, large, vigorous, healthy roots, each, 35c; doz., \$3.00, not prepaid. By Mail, 7c each; 50c doz. extra.

HOP ROOTS

Oregon's Famous English Cluster Hops.

Regular Root Cuttings, 10c each, 3 for 25c; 75c doz.; \$4.00 per 100, postpaid. Low prices by the 1,000.

* **FERTILIZER.**—To grow big crops of Asparagus and Rhubarb you must apply each year a liberal amount of good fertilizer. WE HAVE IT.—See pages 30 and 31.

HARDY FLOWERING & ORNAMENTAL SHRUBS

NOTE.—"D" following the name stands for Deciduous, "E" Evregreens.

SHIPPING.—At the prices given we send large, well branched bushes from 2 to 5 years old, grown in the open ground. As our shrubs are, for the most part, large and heavy, we usually send them by express or freight. By request, small sizes can be sent by parcel post, but you should ADD AT LEAST 15c to 20c EXTRA PER SINGLE PLANT to cover packing and postage.

ALMOND (D)

Almond, Flowering.—Elegant flowering shrubs bearing a profusion of beautiful double flowers before the leaves appear. We have two sorts—**PINK** or **WHITE**. Each \$1.50

AZALEA (D)

MOLLIS.—Rather dwarf shrubs, covered in early spring before leaves appear with very attractive yellow and orange flowers. Each \$2.50 to \$3.00.
EVERGREEN CRIMSON AZALEA, page 83.

BARBERRY

THUNBERGII (D).—A beautiful Japan variety of dwarf habit. Small foliage, changing yellow and red in autumn. Scarlet berries all winter. Each, 75c and \$1.00

ATROPURPUREUM.—New. Foliage a rich, lustrous red all season. Each 75c to \$1.25.

BUDDLEYA (D)—Butterfly Bush

MAGNIFICA.—It produces long, graceful, slender branches, terminating in long spikes of "lilac-like" flowers of a beautiful lavender-blue. Summer and fall. Small plants, 75c each; extra strong, \$1.00 to \$1.25.

COTONEASTER (E)

SIMONSII.—Most popular variety, upright, spreading growth, 4 to 8 feet high, having glossy green leaves which are evergreen in this locality. Small pink flowers in summer followed by lovely clusters of scarlet berries. Small, 60c; large, 75c to \$1.00.

HORIZONTALIS.—Low-growing with horizontal branches. Small evergreen leaves, pinkish-white flowers, followed by bright scarlet berries which remain on the branches nearly all winter. A fine shrub for terraces.

MICROPHILA.—Similar to above, but more dwarf and smaller foliage, best for rockeries.

FRANCHETTI.—Upright, of graceful, drooping branches, red berries in fall. Your choice, small, 60c; large, 75c to \$1.00.

DEUTZIAS (D)

Their hardihood, fine habit, luxuriant foliage and profusion of attractive pink or white flowers in May and June render them among the most beautiful and most popular of flowering shrubs. Your choice, **PINK** or **WHITE**, each 75c to \$1.00

FORSYTHIA(D)

Bright yellow flowers very early in the spring before the leaves appear. Each \$1.00.

GENISTA (E)—Broom

Bushy, upright, leafless evergreens. Flowers free-ly in early spring and summer.

Your choice, 1½ to 2 feet, \$1.00; 2 to 2½ ft., \$1.50

BRIDAL VEIL (Alba.)—Pure white. Very early.

PARADISE (Andreana.)—Red and yellow flowers; very pretty.

SPANISH.—Yellow flowers; elegant foliage; blooms all summer. sweet scented.



Hydranita Hortensia

HYDRANGEA (D)

HORTENSIA.—One of our most popular and showy lawn plants. Often grown in pots or tubs. The beautiful pink variety is most popular, but we can supply White, Pink or Blue.

Young plants, 50c. Large plants according to size and number of flower shoots. Small plants, 75c; medium, \$1.00 large specimen plants, \$1.50 to \$2.50. (See cut.)

H. PANICULATA GRANDIFLORA.—Very hardy variety, blooms in July and August and flowers last until winter. The flowers are massive, cone-shaped, and changing from the original pure white to pink, and finally to a beautiful rich coppery red.

Each, 1 to 1½ ft., \$1.00; 2 ft., \$1.50

STANDARDS, TREE-SHAPED.—Same as above.

Each, 2 to 3 ft., \$2.00; 3 to 4 ft., \$3.00

LILAC (D)

COMMON SINGLE WHITE OR PURPLE.—Grafted.

Each, 3 to 4 ft., \$1.00

FRENCH VARIETIES.—Budded. \$1.50 to \$2.50

QUINCE (D)—Cydonia

JAPONICA.—Bright scarlet, single flowers early in the spring, before the leaves appear. Thorny, compact growth. One of our best hardy shrubs.

Each, 1½ to 2 ft., \$1.00

SNOWBALL (D)

STERILIS (Common Snowball).—Blooms in latter part of May. Large balls of pure white flowers. Every one should plant a Snowball.

Each, small plants, 1½ to 2 ft., 75c; 2 to 3 ft., \$1.00

PLICATUM (Japanese Snowball).—Dwarf; very hardy.

Each 1½ to 3 ft., \$1.25

DON'T FORGET POSTAGE.—Unless 15c or 20c per plant, according to size wanted, is sent for packing and postage, all shrubs will be sent express at your expense.

WEIGELA (D)

Beautiful shrubs that bloom in May, June and July. The beautiful trumpet-shaped flowers are produced in great profusion. Your choice, WHITE, PINK or RED.

PRICES.—Following, Each, 75c and \$1.00.

SPIREAS (D)

The most desirable and popular flowering shrub in our entire list.

PRICES.—Following kinds, Each, 75c to \$1.00.

VAN HOUTTEI.—A beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing, and an early bloomer. (See cut.)

THUNBERGII.—Of graceful habit; slender branches, dense green foliage; early white flowers in feathery masses.

PRUNIFOLIA (Bridal Wreath).—Slender, erect-growing, small double white flowers the entire length of its slender branches.

ANTHONY WATERER.—Large umbels of deep crimson flowers. Dwarf bush.



Spirea Van Houtte

EVERGREEN SHRUBS AND TREES

Not Mailable—These stocks must go by express or freight.

ABELIA

A Chinese shrub of rather recent introduction that is highly satisfactory here and rapidly becoming very popular. A graceful, low growing evergreen with dark, glossy, rather delicate leaves and handsome clusters of light pink flowers that turn to rose pink. In bloom from June to late fall. Small, \$1.00; select, \$1.50 to \$1.75.

ARBOR VITAE—THUJA

An attractive, hardy, compact, upright evergreen of beautiful appearance. Highly ornamental and desirable.

AMERICAN.—Soft, deep green foliage, pyramidal form. Each, 2 to 2½ ft., \$3.00; 2½ to 3 ft., \$3.50

GLOBOSA.—Globe shaped, green, hardy; good for foreground or tubs. Each, 15 to 18 in., \$2.75

GOLDEN ORIENTAL.—Variegated golden to bright green; very attractive. Each, 2 to 2½ ft., \$3.00; 2½ to 3 ft., \$3.50

ACUBA

GOLD DUST.—Beautiful, broad-leaved evergreen, with leaves speckled and striped golden yellow; elegant shrub for specimen on the lawn, or for planting among other shrubbery; bears bright red berries in winter time.

Each, 1 to 2 ft., \$1.75; 2 to 3 ft., \$2.50

JAPONICA GREEN.—Same as above with glossy dark green leaves. Same prices.

AZALEA

HINODEGIRI.—A hardy evergreen of dwarf, compact growth, glossy green leaves; flowers dazzling crimson in the early spring; very showy.

Each, 12 to 15 in., \$2.50; 15 to 18 in., \$3.00

KIUSIANA.—Similar to above. Bush more spreading. Same prices as above.

BOXWOOD

A compact, small leaved true evergreen for hedges or open planting.

SEMPERVIRENS (Suffrutescens).—Fine for borders, edgings or low hedges. Hedge plants, small, 6-in., 25c each; 100 \$15.00. Larger size shaped bushy plants, each 50c; 10 for \$4.00.

TREE BOX (Sempervirens Arborescens).—Small leaved, admirably adapted for lawn decoration; can be kept trimmed into most any shape. **GLOBE** or **PYRAMIDS**.

Well shaped clipped specimen, \$2.00 per foot.

CAMELLIA

JAPONICA.—Choice evergreen shrub bearing double wax-like flowers in shades of pink, red or white. Each 1 to 1½ ft., \$2.00; 1½ to 2 ft., \$3.00

CRYPTOMERIA

JAPANESE.—A beautiful evergreen with delicate green foliage and graceful habit; color changes to reddish-brown in winter. (Cut C-11)

Each \$1.50 to \$3.00

JAP. ELEGANS.—Fine dense bronze-green foliage. Plume-like. Each, \$1.50 to \$3.00

CYPRESS

Extremely graceful evergreens that grow into fine tall symmetrical forms. Very satisfactory as single specimens. In masses or for screens and hedges.

LAWTON.—Strong, hardy variety; foliage deep green; used extensively for hedges and wind breaks; quite a rapid grower.

Each, 1 to 2 ft., \$2.00; 3 to 4 ft., \$2.50 to \$3.00
Hedge plants not trimmed, 75c to \$1.00.

ALUMNI (see cut A15, next page).—Erect grower, foliage deep bluish-green; very handsome variety. Each, 2 to 2½ ft., \$2.00; 3 to 4 ft., \$4.00

WESSLI.—A tall, upright grower; fine foliage of bluish-green color; soon makes a tall, cylindrical compact specimen (see illustration A12).

Each, 2 to 3 ft., \$3.00 to \$4.00

DAPHNE

ODORATA.—Superb evergreen shrub of compact growth with glossy dark green leaves sometimes bordered with white. Bears in early summer clusters of small flowers of exquisite fragrance. Each \$2.00 to \$3.00.

SHADE TREES

Catalog space does not permit us listing shade and ornamental trees. Ask for prices on any kind, as we have all kinds.

FREE BOOKLET
—16 PAGES—
"How to Plant 'Em
So They Live"

Free on Request
with Nursery
Stock.

ENONYMOUS JAPONICA—A

fine specimen evergreen plant or shrub with leathery glossy green ovate leaves. Makes a nice specimen plant on the lawn and very suitable for foundation planting. Each \$1.00 to \$1.50.

JAPONICA AUREA.—Same as above; less vigorous. Leaves beautifully spotted with gold. Each \$1.50 to \$2.00.

GENISTA. (E.).—See page 82.

HEATHER

SCOTCH.—Low, dense spreading evergreen shrub covered with small lavender-pink flowers from October to May.

Choice plants, each, 75c to \$1.25

HOLLY

Very popular everywhere.

ENGLISH (Aquifolia).—Budded stock, guaranteed berry-bearing. Well balled and carefully packed.

Each, 2 to 3 ft., \$2.00 to \$2.50; 3 to 4 ft., \$3.50

JUNIPER

IRISH.—Very desirable, columnar in form, foliage silvery grey; a hardy grower.

Each, 2 to 3 ft., \$3.00; 3 to 4 ft., \$3.75

CHINESE.—Pyramided, compact, sharp needles, dense green foliage. Each 1½ to 2 ft., \$2.50; 2 to 2½ ft., \$3.00.

KALMIA—Calico Bush

LATIFOLIA.—Dark green leaves, upright clusters of beautiful flowers rose color to white, very desirable.

Each, 1½ to 2 ft., \$2.50

LAUREL

ENGLISH.—A handsome, quite rapid growing shrub with large oblong leaves, shining foliage. Excellent for large hedges or screens or as single specimens. (See illustration E16).

Each, small, 75c; 1½ to 2 ft., \$1.00; 2½ to 3 ft. \$1.50.

LAURUSTINUS

Beautiful evergreen shrub with bright shining green leaves and covered in the late fall, winter and early spring with large panicles of fragrant white blossoms.

Each, 1½ to 2 ft., \$1.50; 2 to 3 ft., \$2.25

CEDRUS (Cedar)

These are among our handsomest evergreens. There are several kinds, but we list only one of the very popular sorts.

DEODORA.—Graceful drooping branches, distinct light green foliage.

Each, 2½ to 3 ft., \$2.50; 3 to 4 ft., \$3.50

REMEMBER—Evergreen shrubs by express or freight. They cannot go by parcel post as they are taken up with a ball of earth and don't pack safely by mail.



Retinospora Plumosa

Irish Juniper

Cypress Alumi

English Laurel

Landscape Department

This department in charge of a well known Landscape Architect will serve you without cost to you. If you need advice or help in planing your grounds or any special part or feature of your garden, write or phone us.

Out of town customers should send a small diagram of their grounds giving outline of foundations, where they are situated on the property as well as dimensions and compass points with any other information that may be of assistance.

No problem is too small to receive the best attention of this department.

PRIVET

CALIFORNIA.—One of the best hedge plants; has small pointed leaves; grows rapidly and compactly; stands severe pruning and can be kept in fine shape with little care.

12 to 18 in., per 10, \$2.00; per 100, \$15.00

GOLDEN LEAVED (Ligustrum Aureum).—Leaves heavily variegated with golden yellow. A fine ornamental shrub for any situation; very ornamental and attractive. Each, 1½ to 2 ft., \$1.50

PYRANCATHA

EVERGREEN FIRETHORN.—Very desirable spring shrub. Narrow green leaves. Small, white flowers, followed by showy bright berries for fall and winter show.

AUGUSTIFOLIA.—Tall growing, large yellow berries. Each, 1½ to 2 ft., \$1.25; 2 to 3 ft., \$2.00

LELANDI.—Of more spreading and slender habit than the preceding, growing into a large, upright, graceful shrub; berries all winter.

Each, 1 ft., \$1.00; 2 to 2½ ft., \$2.00; 3 to 4 ft., \$3.00.

COCCINEA.—The berries on this variety are showy and lasting and bright orange scarlet. Bright green foliage.

Each, 1½ to 2 ft., \$1.25; 2 to 2½ ft., \$2.00

YEW—TAXUS

Small, tall growing evergreens that are highly ornamental for formal effects.

IRISH.—Remarkably upright and slim in form, foliage of very compact habit and of glossy dark green.

Each, 15 to 18 in., \$2.50; 1½ to 2 ft., \$4.00

Evergreen—Continued

RETINOSPORA

One of our most showy and valuable evergreens. There is a large class of Retinosporas but the most popular are the varieties described below. They are hardy and thrive under nearly all conditions and can be sheared to keep in size and form desired.

PLUMOSA (R13, page 84).—A fine Japanese variety, hardy and graceful with quite compact, delicate, plume-like foliage of a glaucous green color. Each 1½ ft., 75c; 2-ft. specimens, \$1.50

PLUMOSA AUREA (Golden).—Same as the above with foliage of a golden tint throughout the year, but brighter in the winter.

Each, small, 75c; 2-ft. specimens, \$1.50

OBTUSA.—Very beautiful sort. Foliage of silvery green. Quite a rapid grower, but can be kept down by annual shearing.

Each, small \$1.00; 1½ to 2-ft. specimens \$1.75

SPRUCE

Popular evergreens. They do well anywhere except on low, wet land. Fine for single specimens on the lawn and for hedges or windbreaks.

NORWAY (Excelsa).—The most generally planted for ordinary uses. It's a pyramidal, symmetrical and rapid grower. Each, 2 to 2½ ft., \$2.00; 2½ to 3 ft., \$2.50; 3 to 4 ft., \$3.00.

ENGLEMANNI.—Slender pyramidal, very hardy and of a soft bluish foliage. Each, 2 to 2½ ft., \$2.50; 2½ to 3 ft. \$2.75; 3 to 4 ft., \$3.00.

COLORADO BLUE.—Vigorous, hardy grower; a favorite for large lawns. Pungent foliage varying from green to blue. Each, 1½ to 2 ft., \$3.50; 2½ to 3 ft., \$4.00 to \$5.00.

THUJA.—See Arbor Vitae, page 83.

NEW AND UP-TO-DATE BOOKS

At your leisure you can learn in a few hours' reading what it has taken others years of time, study and experimenting to find out. Space will not permit us to fully describe these books, but we'll gladly send fuller descriptions upon request.

All Prices Postpaid

AMERICAN GREENHOUSE CONSTRUCTION

—by R. T. Muller. Complete in every detail. 152 pages. Cloth bound 1.65

ASPARAGUS.—Hexamer\$1.25

BOOK OF SHRUBS (Hottes).—384 pages....\$3.15

BULBS THAT BLOOM IN THE SPRING—by Weston. Complete and up-to-date. Cloth cover2.65

BUSH FRUIT PRODUCTION. New book by Van Meter—Raise Your Own Raspberries, Blackberries, etc. 125 pages, cloth..... 1.50

BUTTER MAKING. C. A. Publow..... 1.25

CITY AND SUBURBAN GARDENING (Chas. Sherlock).—Written especially for the owner of a home who is desirous of making his home a place of beauty. 186 pages, 93 illustrations. Cloth bound, colored jacket.....\$2.15

GARDEN GUIDE.—The amateur gardener's handbook, 275 illustrations; covers all subjects. Paper cover, \$1.10; cloth, \$1.65.

GARDENING UNDER GLASS (F. F. Rockwell).—Have fruit and vegetables of superb quality out of season; also flowers all the year around. 304 pages, profusely illustrated, Span-O-Tone cloth cover. Price\$2.65

HOME FRUIT GROWER (M. G. Kains).—Covers all subjects, illustrated. Practical guide. Paper cover, \$1.10; cloth, \$1.65.

HOW TO GROW ROSES (Robert Pyle).—189 pages fine illustrations. A valuable guide. Cloth cover, \$2.25.

LITTLE BOOK OF ANNUALS (A. C. Hottes).—A reliable guide throughout the season; 128 pages. Cloth cover \$1.65.

LITTLE BOOK OF PERENNIALS (A. C. Hottes).—For amateurs and professionals. Paper cover, \$1.10; cloth, \$1.65.

MAKING THE FARM PAY. Bowsfield, \$12 pages; cloth 1.50

MILADY'S HOUSE PLANTS.—Tells you how to be successful with house plants. Paper cover, \$1.10; cloth, \$1.35.

MODERN DAHLIA CULTURE. By Waite.

126 pages, up to date, cloth cover1.65

NEW ONION CULTURE. Greiner..... 1.25

PLANT CULTURE (Oliver and Hottes).—New and complete guide; 444 pages; concise and authentic. Cloth cover, \$3.75. ..

PRACTICAL LANDSCAPE GARDENING.—New guide by Gridland. None better. 83 plans, 158 illustrations, 266 pages. Cloth cover, \$2.65.

PRACTICAL PLANT PROPAGATION (A. C. Hottes).—180 pages. The art and science of increasing plant stocks. Profusely illustrated. Cloth cover, \$2.15.

PRACTICAL VEGETABLE CULTURE (Wilkinson).—308 pages\$2.15

WAYSIDE MARKETING (Arnold).—132 pages\$1.75

PRONOUNCING DICTIONARY of Plant Names—Simple and easy to understand. 86 pages 30c

RHUBARB CULTURE. New. Morse & Fiske 1.25

ROCK GARDEN PRIMER. (Thornton).—Tell all about constructions, soil, suitable plants and bulbs. 70 illustrations, 4 color plates, 152 pages, bound in imitation leather. \$2.15

ROSE GARDEN PRIMER (Holmes).—The truth about Rose growing for pleasure and profit. Complete, reliable, up-to-date, 224 pages. 70 illustrations, bound in Spain-O-cloth\$1.90

SUCCESS WITH HOGS. By Dawson. 268 pages 1.50

TOMATO CULTURE. Tracy 1.25

TOMATO PRODUCTION. New. By Paul Work. 128 pages 1.50

THE STRAWBERRY. New edition. By Fraser. 128 pages, cloth 1.50

WATER GARDENS AND GOLD FISH.—Gives care, culture, etc. 112 pages. 95 illustrations. Cloth cover 1.75

BIRD, CAT, DOG AND RABBIT BOOKS.—See index for pages.

Practical Poultry Books

Poultry Books of Real Value.—There is money in "Poultry" if you know how. Read what it has taken others years and years of time and experience to learn.

SEND FOR DESCRIPTIVE PRICE LIST OF POULTRY BOOKS—IT'S FREE

CATALOG OF BOOKS.—We will gladly mail you a catalog giving full description of the books priced above. It also gives information on other books of like nature. It's free and worth looking over.

SPRAY PUMPS AND SPRAYERS

Our experience shows us that if you get a good outfit, one large enough to do your work, you will spray well and as often as necessary.

BROWN'S AUTO SPRAY NO. 9

Screw Lock Compressed Air Sprayer

AUTO SPRAY NO. 9 is built of the best materials and is as correct in design as a sprayer of this type can be made. We have no hesitancy in recommending Brown's Auto-Sprays wherever a compressed air sprayer is needed, for after testing all other sprayers of this style we claim Brown's is the best, gives no trouble and more satisfaction. Will last for years with reasonable care.

SPECIFICATIONS.—Reservoir capacity 4 gallons. Height over all 25 inches. Diameter $7\frac{1}{2}$ inches. Weight empty 9 lbs. Air pump 2 inch diameter. This sprayer manufactured with either brass or galvanized steel reservoir. Packed only 1 to the carton. Shipping weight 11 lbs.

PRICES.—No. 9-D Galvanized Tank, \$6.75; No. 9-B Brass Tank, \$9.75.

BROWN'S AUTO SPRAY NO. 50

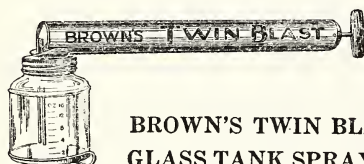
The construction and equipment of No. 50 is the same as the No. 9 but it is of smaller capacity, holding $2\frac{1}{2}$ gallons. Ideal size for women or for general use where spraying is not excessive.

SPECIFICATIONS.—18 inches tall, diameter $7\frac{1}{2}$ inches; weight empty, $6\frac{1}{2}$ lbs.; capacity $2\frac{1}{2}$ gallons. (P. P. wgt. in carton 8 lbs.)

PRICES.—No. 50-D galvanized tank, \$6.00; No. 50-B brass tank, \$8.50.

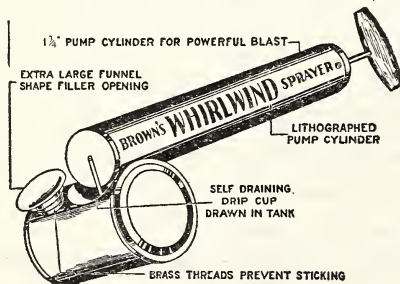


Browns Auto Spray No. 9



BROWN'S TWIN BLAST GLASS TANK SPRAYER

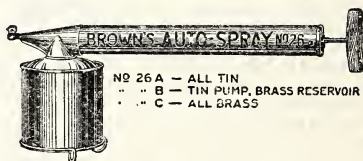
Well constructed; the glass reservoir which is a quart Mason jar, is not affected by any kind of spray. You can have several jars of different sprays (already prepared) and when you wish to change, take out one and put in another. No delay. Extra long air chamber, special plunger and throws a strong, fine, mist-like spray in any direction. Each, 75c. (Mailing wgt., 2 lbs.)



No. 216 Whirlwind

LITTLE GEM SPRAYER

Same style as above, well made and durable; capacity $\frac{1}{2}$ pint. Excellent for spraying household insecticides, fly killers, etc. (Mailing weight $1\frac{1}{2}$ lb.) PRICE—GEM NO. 25—Each 48c.



No. 26-A, B and C Continuous

BROWN'S CONTINUOUS SPRAYER

We recommend this sprayer for use with all agricultural insecticides, disinfectants and household insecticides. It is a most convenient sprayer in the house, in the garden and in the greenhouse. It sprays on both up and down stroke and therefore requires only half the effort to do a thorough job.

PRICES.—No. 26-A, tin, \$1.00. No. 26-B, tin pump, brass tank, \$1.25. No. 26-C, all brass, \$1.50.

No. 26-AG GLASS TANK CONTINUOUS

Same general construction as No. 26 above, but equipped with glass tanks. Any Mason jar will fit. This is a great convenience as you can have several jars of different sprays all ready to use. Simply unscrew one jar and put in another. Weight packed for parcel post, 3 lbs.

Price—No. 26-AG, \$1.40

ATOMIST SPRAYER, A.—Similar to above. Made especially for spraying lacquer paint.

PRICE—\$1.75.

NEW WHIRLWIND SPRAYER

A strong, well balanced, single-acting sprayer of good capacity and well constructed of high-grade material. Far superior to most makes in this style. Capacity 1 quart. (Mailing weight 2 lbs.)

PRICE WHIRLWIND NO. 216, tin, 50c.

REMEMBER.—Our New East Side Store, corner East Stark Street and Grand Avenue, carries a full line of all stocks we catalog. No traffic congestion or parking limit there.

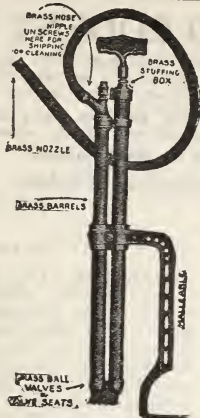
NO. 26 O. K.

BUCKET PUMP

(See cut)—Constructed entirely of brass. It is furnished with three feet of best quality rubber hose, detachable; malleable iron stirrup, three interchangeable brass nozzles which throw a fine mist, coarse spray or a solid stream. Pump is provided with large air chamber, with brass ball valves and valve seats. Throws a continuous spray; neat in appearance as well as durable in construction. Much superior to most pumps of this class. (Wgt. 8 lbs.)

lbs.) Price \$4.50.

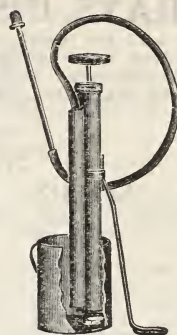
3 ft. Brass Extension rods for above, \$1.00.



O. K. Bucket Pump



No. 5 Auto



No. 26 Whirlwind Whitewasher



CYANOGAS POWDER GUNS

No. 1—Special with hose1.60

(Mailing wgt. 2 lbs.; add postage)

Small Foot Pump5.00

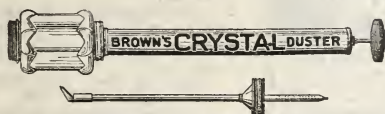
(Mailing weight 4 lbs.)

BROWN'S NO. 1 DUSTER



This is the best low-priced duster we have found. Perfectly satisfactory for dust controls, in small gardens, flower beds, and shrubs. The tin dust container screws into the pump cylinder. This pump is compact and well made and will not get out of order. Capacity, 1 pt. Price, 60c. (P. P. wgt. 1½ lbs.) Add postage if wanted by mail.

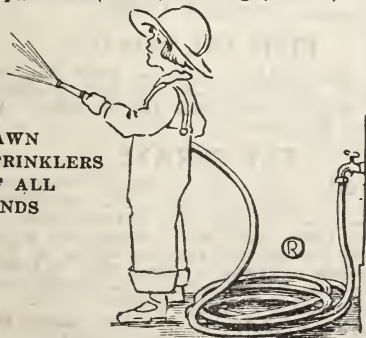
BROWN'S CRYSTAL DUSTER



Brown's Crystal Duster

New and right up-to-date and double the capacity of the above. This dust blower has the glass jar feature showing the agitation and amount of dust in the container. The large opening in the jar enables easy and quick filling. The long extension and adjustable nozzle enables the operator to easily dust the under side of leaves. Capacity, 1 pt. Price \$1.25. (P. P. wgt., 2 lbs.)

LAWN
SPRINKLERS
OF ALL
KINDS



BROWN'S NO. 5 AUTO SPRAYER

BROWN'S NO. 5 AUTO SPRAYER.—A double acting, continuous sprayer for general spraying, sprinkling or fire fighting; generates high pressure and will throw a solid stream 40 to 50 ft., or produce a fine spray for garden or orchard work (P. P. wgt. 3½ lbs.) Price \$5.00. Can be attached to a 5-gal. metal knapsack tank. Tank prices, Brass, \$6.00; galv., \$3.00.

WHIRLWIND WHITEWASHER

Made especially for whitewashing

Galvanized tin, brass plates, steel footrest 8 ft. hose, double nozzle. (Wgt. 5 lbs.) See illustration. Price \$2.75

UTILIX BOTTLE SPRAYER

A very neat, practical sprayer for applying a variety of liquids in constant use. The pump is made of brass, nickel-plated and is not affected by any spray solution. It works easily, you simply slip the forefinger in the loop and pump up and down. The nozzle is adjustable for mist-like spray or a fine solid stream. Very useful for spraying disinfectants, insecticides, fly sprays, oils, etc., water for dampening clothes and for spraying house plants.

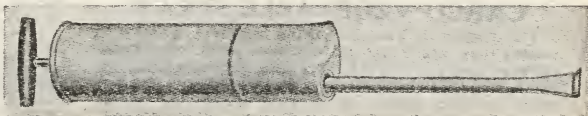
Ideal for spraying cage birds that will not bathe or for plumage restorer. Capacity, 1 pint; height, 10 inches.

Price, complete, \$1.00; postage extra. (P. P. wgt. 1½ lbs.)

NO. 1—MAJOR DUSTER

This duster is designed for the home gardener, the small truck farmer or fruit grower, for use in and around the home, dairy, etc. It will handle all dry powdered insecticides very satisfactorily. Diameter of barrel 2¾ inches. Fitted with powder strainer and up or down shoot nozzle.

Specifications—Length over all, 28 inches. Extension, 12 inches. (P. P. weight 2 lbs.) Price \$1.25



No. 1 Major Duster

SPRAY AND GARDEN HOSE

ROUTLEDGE HIGHEST QUALITY—Guaranteed

This hose gives excellent satisfaction. Good enough for any ordinary spraying outfit, and by far the best hose for florists' or garden use. One customer reports that he used a 50-foot length of this grade for four seasons continuously, which proves that it is the cheapest hose to buy.

Price per foot, smooth or corrugated, ½-inch, 12c per foot; ¾-inch, 15c; coupling free on 50-ft. lengths.

HOSE NOZZLES.—Diamond 75c, Fountain Shower 30c, Raining \$1.50

SPRAYS, INSECT AND RODENT KILLERS

Don't wait until the fungi such as mildew, rust, black spot, etc., have attacked your roses and trees. The fungicide sprays are merely preventative and should be used in the fall and early in the spring before the buds open. After the disease has developed, it may be too late to save the plant.

DESCRIPTIVE CATALOG, LEAFLETS, BOOKLETS, etc., on many of the following Sprays and Insecticides free on request. Tell us your trouble and we will gladly advise you.

NOTE.—Full directions on each container.

Sprays in Alphabetical Order

AFITOX

AFI-TOX contains a soap "spreader" which causes Afi-Tox to spread evenly when properly sprayed.

Afi-Tox will control and destroy Green or Black Aphis, Black or Green Fly, Leaf Hopper, Red Spider, Mites, and Lice, Blight, Red Bud, Squash Bugs, Thrips, etc. Use 3 teaspoonfuls Afi-Tox to a quart of water and cover leaves and plant thoroughly with a fine spray. Price: $\frac{1}{2}$ pint, 50c.

ANTROL ANT KILLER

ANT KILLER.—ANTROL.—Is the most effective eliminator of Argentine and honey dew loving ants known. The largest nurseries and thousands of homes on the Pacific Coast use it exclusively. Antrol is harmless to children or pets, yet eliminates the entire ant colony—quickly and surely. Prices: Cottage set of 4 storm-proof containers and 4 oz. of Antrol Syrup, 95c. Syrup only.—4 oz. 35c; pints 75c; gal., \$3.00. Extra containers, 15c each.

ARSENATE OF LEAD

ARSENATE OF LEAD (Powder).—For eating and leaf-chewing insects, codling moth on fruit. Prices.— $\frac{1}{2}$ -lb. can, 25c; 1 lb., 45c; 4 lbs., \$1.25. Quantity price on request.

BLACK LEAF 40

A nicotine spray for red bug, green and wooly aphis, thrip, plant lice, codling moth, pear, psylla and all sucking insects.

Price.—1-oz. bottle, 35c makes 5 gallon spray; $\frac{1}{2}$ -lb. can, \$1.25, makes 47 gallons spray; 2-lb. can, \$3.75, makes 240 gallons spray; 10-lb. can, \$11.85, makes 1,000 gallons spray. Use 4 lbs. Whale Oil Soap to 50 gals. solution. Full and detailed instructions with each can.

BORDEAUX MIXTURE

BORDEAUX MIXTURE (Powdered).—For blight, mildew, rust and fungus diseases. Apply dry as a powder or 1 lb. to 5 gal. of water. Prices: 1 lb., 40c; 5 lbs., \$1.50; 10 lbs., \$2.75.

BUHACH INSECT POWDER

BUHACH INSECT POWDER.—Kills flies, flees, bedbugs, etc. Small bellow pkt., 10c; large, 25c; 3 oz. can, 40c; 6 oz., 75c; 12 oz., \$1.35. Postage extra.

CARCO VEGETABLE SPRAY

For destroying and preventing maggots, grubs and worms that infest turnips, radishes, beets, rutabagas, cabbage and cauliflower, etc., also recommended for combating crown borers in strawberries. Applied when setting plants or sprayed along the rows. "Carco" is highly concentrated; use 1 part "Carco" to 100 to 125 parts of water. Descriptive pamphlet and testimonials on request.

Prices: $\frac{1}{2}$ -pint 50c; pint 75c; qt. \$1.25; gal. \$3.75. By Mail: $\frac{1}{2}$ -pint and pt., 10c extra.

COLD WATER PAINT TREE WHITE

This is a white paint and disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. Mailable; add postage.

Prices: 8 lbs. 60c; 10 lbs. \$1.50; 50 lbs. \$6.00.

Spray material subject to market changes. Write for quantity prices. Poisons not mailable. Add postage if small package of mailable sprays or powders are wanted by mail.

CYANOGAS

"It's the gas that kills them."

CYANOGAS "A".—A powerful powder prepared to destroy rats, moles, gophers, ants, etc., that burrow in the ground. A spoonful to a hole, or better still if blown down the hole with a Cyanogas Powder Gun or Blower. They cannot dodge its deadly fumes. They die in their tracks. **CYANO-GAS Blowers and Guns**, page 87.

Prices: 1-lb. cans 75c; 5 lbs. \$2.50; 25 lbs. \$6.00; 100 lbs. \$20.00.

CYANOGAS "G".—Prepared especially for fumigation of greenhouses to kill aphis, blackfly, greenfly, white-fly, thrips and soft scale.

Prices: 1-lb. cans 75c; 5 lbs. \$3.00; 25 lbs. \$10.00; 100 lbs. \$30.00.

Cyanogas powder not mailable. Handle it with care. Descriptive matter on request.



Kills Beetles, Green Worms, Slugs, Aphis, Leaf Hoppers, Spibug and most plant pests, including even Cutworms. Use it freely on tender plants and flowers—it can't burn or otherwise injure them. Neither will it injure the soil.

Non-Poisonous Evergreen kills only insects—it is harmless to man, livestock, birds and pets.

Easy to Use.—Just mix it with water and stir. No need for constant agitating —EVERGREEN stays in solution and won't clog sprayers.

Evergreen is inexpensive to use as it dilutes in water at the rate of 1 to 5 teaspoonfuls to a gal., or 1 to 100 and 1 to 800 parts of water, according to directions. Leaflet on request.

Prices.—1-oz. bottle, 35c; 6-oz. \$1.00; 16-oz. \$2.00; qt. \$3.50; gal. \$13.00; 5 gal. \$50.00. Small bottles mailable. **POSTAGE EXTRA.**

FISH OIL SOAP

FISH OIL SOAP.—For aphis, plant lice, etc., and to mix with Black Leaf 40 to make it stick to foliage. Prices: Small cake 10c; lb. 25c; 10 lbs. \$2.00; 100 lbs., write.

FLY SPRAYS

FLY-FOIL kills Flies, Moths, Mosquitoes, Roaches, Bed Bugs, Ants, Fleas, Lice and Spiders.

A new kind of spray that instantly seeks out the pests, forces them out of hiding and quickly kills them without the slightest danger as it is non-poisonous to human or animal life. **FLY-FOIL** will not stain walls, woodwork, or clothes; odor is pleasant and quickly passes away.

Prices: 8-oz. bottle with a mouth blower, 30c; 40c postpaid. Pint 50c, or 60c postpaid.

FLY-TOX

Fly-Tox Was Scientifically Developed at Mellon Institute

Kills Flies, Moths, Mosquitoes, Roaches, Bedbugs, Ants, Fleas, Lice and Spiders.

A new kind of spray that instantly seeks out the pests, forces them out of hiding and quickly kills them without the slightest danger as it is non-poisonous to human or animal life.

FLY-TOX will not stain walls, woodwork or clothes; odor is pleasant and quickly passes away. Illustrated and interesting leaflet tells all and gives full directions for using.

PRICES: $\frac{1}{2}$ pint 50c, or 60c postpaid; 1 pint 75c, or postpaid 90c; 1 qt. \$1.25; 1 gal. \$4.00.

SPECIAL OFFER.—One pint Fly-Tox and a 40c Sprayer for \$1.15, postpaid.

Fly Spray for Stock

STOCK AID.—For cows and stock. A 2 in 1 spray; kills and repels the flies. Prices: gals. \$2.00; 5 gals. \$8.00.

GOPHER SCENT

GOPHER SCENT.—For gophers, squirrels, etc. it will give results or you can have your money back; the scent is irresistible. Prices: 8-oz. can 35c; 12 oz. 50c; 29 oz. \$1.00.

GRAFTING WAX

GRAFTING WAX.— $\frac{1}{4}$ -lb. 25c; $\frac{1}{2}$ -lb. 35c; 1 lb. 60c. Add postage if wanted by mail.

GAS BALLS

A new product of real merit to eradicate ground squirrels, prairie dogs, rabbits and pocket gophers. When these gas balls are lighted and rolled down into the burrow they produce a deadly, poisonous gas that carries death to any living rodent in the burrow.

They are non-explosive and non-poisonous to handle. Use one or two balls per burrow. Safe, sure and inexpensive. Full directions with each order. Price: 6 for 30c; doz. 40c, postpaid 50c; 3 doz. \$1.00, or \$1.25 postpaid. Carton of 125 balls, \$3.00. Wgt., 14 lbs. Postage extra.

HELLEBORE POWDER

HELLEBORE POWDER.—Non-poisonous to mankind. 1 oz. to 8 gal. of water. Prices: $\frac{1}{2}$ lb. 40c; lb. 75c; postage extra.

LIME AND SULPHUR SPRAYS

LIME AND SULPHUR SPRAYS.—For scale, insects of all kinds, fungus, scab and blister, etc.

LIME AND SULPHUR SOLUTION.—(Liquid 1 to 9 parts of water.) Prices: Qt. 30c; gal 75c; 5 gal. \$2.25; 50 gals., write

LIME AND SULPHUR.—Dry Mixed.—12 to 15 lbs. to 50 gal. water for dormant spray. One-quarter strength for summer spray. Prices: 1 lb. 30c; 5 lbs. \$1.35; 10 lbs. \$2.25; 25 lbs. \$4.25; 100 lbs., write.

PESTROY

This combines the insect destroying properties of Arsenate of Lead and the fungus preventative qualities of Bordeaux Mixture. Use as a powder, or in a water solution, same strength Arsenate of Lead powder. Prices: 1 lb. 50c; 4 lbs. \$1.50.

**MAGOTITE**

A Real Root Maggott Remedy; non-injurious to plant life.



Use Mag-o-tite to keep the maggots from eating Raddish, Turnips, all root crops, Cabbage, Onions, Spinach, etc.

MAG-O-TITE is to be sprinkled in and over the drills when seeding, and again after the plants are up. Mix a teaspoonful with the soil when setting cabbage plants or over the soil close to the stem if plants are set.

Prices: Add postage if wanted by mail. 2-lb. pkg., 35c; 10-lb. sk., \$1.25; 25-lb. sk., \$2.25; 100-lb. sk., \$8.00.

NICO-FUME

NICO-FUME LIQUID.—For spraying or vaporizing: $\frac{1}{4}$ lb. tin, 75c; 1 lb. tin, \$2.00; 4 lb. tin, \$6.25; 8 lbs. (gal.), \$11.50. (Cannot mail.)

NICO-FUME FUMIGATING PAPER.—Price per can of 24 sheets, \$1.25 (weight 1 lb.); 144 sheets, \$5.25 (weight 4 lbs.), 288 sheets, \$9.50 (P. P. weight 8 lbs.) Add postage if wanted by mail.

NICO-FUME TOBACCO POWDER.—Full information on cans. 1-lb. can, \$1.00; 5 lbs., \$4.00; 10 lbs., \$7.50. Postage extra.

KEEPWAY TARRED PLANT PROTECTORS

Thousands of market gardeners use this protector to keep the maggot fly away from cabbage and cauliflower plants. Slip one protector around the plant stem before or right after planting. Size 3 x 3 inches. Prices, postpaid, 24 for 15c. 72, 35c; 144, 50c; 500, \$1.50; 1,000, \$2.90.

ALL-IN-ONE SPRAY DUSTS

Get a good powder gun and with All in One Dust you can combat most all garden pests.

"All-In-One" Combination Dust. To prevent disease and attacks of insects. Start early and use it all season. Lb. can 50c; 5 lbs. \$2.00; 10 lbs. \$3.50.

RAT POISONS

We have tried out dozens of kinds and recommend the following as being the best:

RAT SCENT.—A perfect rat poison all ready to use. Dogs and cats won't eat it but rats and mice will take it in preference to any other food. Price: 8-oz. can 35c.

RAT NIP.—It's a paste in tin tubes. Squeeze it out on bread, etc. Rats and mice can't resist it. Price 35c.

TOPZOL-NEW.—Kills rats and mice but harmless to man and domestic animals. Can be used with perfect safety. Price, 2 oz. cans 50c, or 60c postpaid.

RED ARROW INSECT SPRAY

A contact insecticide fatal to both chewing and sucking insects of every variety. Non-poisonous and will not burn the most tender leaf. Perfectly safe to use on fruit and vegetables. The best and most economical spray. 1 to 4 teaspoonfuls to a gal. of water. Prices: 1 oz. 35c; $\frac{1}{4}$ pint \$1.00 $\frac{1}{2}$ pt. \$1.75; 1 qt. \$6.00. Finished spray costs from 2c to 4c per gal. Full directions on all containers. Pamphlet on request.

SPRAY EVERYTHING.—Adequate crop protection is the latest step taken by scientific agriculture—"SAVE BY PROTECTION."

SNAROL

Best by Test

SNAROL.—A meal that quickly destroys cutworms, sow bugs, earwigs, grasshoppers, snails and slugs.

Merely sprinkle Snarol around and under planted vegetation. Insure them against destruction. Will not in any way destroy plants and rain does not destroy its value.

Look over your premises at once—note if any of these pests are present. If so, take steps immediately to destroy them for they quickly multiply, and once they become active they will soon overrun your grounds.

The slimy slug is very destructive. It feeds by night and hides during the day. If you have a garden or flowers you need Snarol.

Prices: 1 lb. pkg. 35c; 3 lbs. 75c; 15 lb. sack \$2.95. A 15-lb. sack for the average city lot is about right.



SULPHUR

SULPHUR POWDER (Flour).—Lb. 10c; 3 lbs. 25c; 10 lbs. 75c; 100 lbs., write.

SULPHUR CANDLES.—For fumigating. Each 15c; 2 for 25c. postpaid.

ROACH AND BED BUG POWDER

TALBOA'S ROACH POWDER, ANT POWDER or BED BUG POWDER.—Put up in 25c and 50c cans. Postage 10c extra.

TOBACCO DUST

TOBACCO DUST.—High grade. 1 lb. 15c; 10 lbs. \$1.25.

TREE TANGLEFOOT

TREE TANGLEFOOT.—A sticky compound to band trees or large plants to prevent crawling insects from going up the stalks or trunks. Prices. 1-lb. can 60c; 5 lbs. \$2.75; 10 lbs. \$5.25.. Postage extra.

VOLCK

In greenhouses and out of doors, for all types of plants and the tenderest of flowers, this material has proven effective. It leaves the foliage bright and glossy.

For killing Red Spider in all stages—eggs, nymphs and adults, VOLCK gives a complete kill and a prolonged control.



Being non-poisonous to people and animals, it is a very pleasant material to use.

Use VOLCK for Cyclamen Mite, White Fly, Aphid (Green Fly), Thrips, Mealy Bugs, Scales, Midge, Mildews and Rusts.

Complete instructions with each can. One pint VOLCK makes 10 gallons spray. Three level teaspoonfuls makes 1 gallon.

PRICES— $\frac{1}{2}$ -pint 35c; pint 60c; quart 85c; gallon \$2.25. Small cans will be mailed if you add postage.

WEED KILLER

WEED KILLER.—For killing grass and weeds on tennis courts, paths and roadways. Use 1 part Weed Killer to 40 parts of water and apply with sprinkling can. Prices: Qt. 65c; gal. \$1.85; 5 gals. \$8.00. Write for bbl. price.

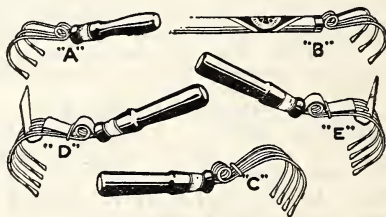
WHALE OIL SOAP

WHALE OIL SOAP.—High grade, in bars or boxes. Prices: $\frac{1}{2}$ -lb. 15c; lb. 25c; 10 lbs. \$1.50. Write for quantity price.

Miscellaneous Supplies and Tools You Need

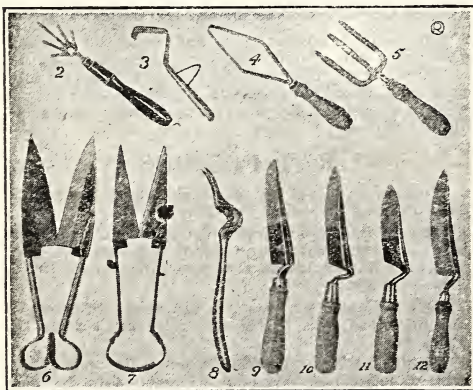
HAND WEEDERS

Several good styles. Fork (see cut No. 5), 25c; Excelsior, five-claw (see cut No. 2), 25c; Lang's (see cut No. 3), 25c.



MAGIC WEEDER.—Style "A," 15c; postpaid 20c; Magic "B," 18-inch, 25c; postpaid 35c; Magic "C," 35c; postpaid 45c; Magic "D" or "E," see cut, 50c; postpaid, 60c.

SIMPLEX WEEDER.—Every owner of a lawn needs a Simplex to pull the weeds with the roots. It's simple, sure, and easy to operate; no toy weed puller. Long handle (4 feet). No backache or stiff knees. Most popular garden tool we have. (P. P. wgt. 2 lbs.) Price \$1.25. ADD POSTAGE IF WANTED BY MAIL.



GRASS SHEARS

No. 6.—High grade, full polish; 6-inch blade; \$1.00; postpaid, \$1.10.

No. 7.—5 1/4-inch blade; good value, 50c; postpaid, 60c. See page 92 also.

GARDEN TROWELS

Add 10c extra for mailing.

No. 9.—Wood handle, 6-inch steel blade, 35c;

No. 10.—Very strong; all steel; 6-inch. 35c. ..

No. 12.—Best low-priced; 6-inch blade. 15c.

MAYNARD.—6-inch; highest grade. 90c.

TRANSPLANTING.—Narrow blade, high quality. 25c.

Limited catalog space only allows us to show a very small part of our Garden and Lawn Supplies. Call or write for anything wanted.

Miscellaneous Supplies and Tools You Need

Remember to add postage if wanted by mail.

PLANT AND ROSE STAKES

Prices Not Prepaid.

ROUND GARDEN STAKES

		Doz.	100		Doz.	100
3	ft.....	.50	\$3.00	3½	ft.....	.60 \$4.00
4	ft.....	.70	4.50	4½	ft.....	.80 5.00
5	ft.....	\$1.00	6.00	6	ft.....	\$1.25 8.00
3½	ft. plain but		varnished			.30 2.00

BAMBOO PLANT STICKS

BAMBOO: Pencil size, stained green—

2-ft., 20c doz.; 100, \$1.00 2½-ft., 25c doz.; 100, \$1.25
3-ft., 30c doz.; 100, \$1.35 4-ft., 35c doz.; 100, \$1.50

WOODEN LABELS

The tree and pot labels we offer below are strictly No. 1 labels, smooth and well made. The painted labels are "really painted," not dipped in oil. Ordinary lead pencil writing on the painted labels is always readable; it will not wash off.

Tree Labels

P. P. Wgt. 4 lbs.	12	100	M
Painted, copper wired	\$0.10	0.35	\$2.90

Pot Labels

	Wgt. per M.	12	100	M
Painted, 4 in. (P. P. 3½ lbs.)		\$0.10	\$0.35	\$2.25
Painted, 5 in. (P. P. 4½ lbs.)		.10	.40	2.50
Painted, 6 in. (P. P. 4½ lbs.)		.10	.40	3.00
Painted, 8 in. (P. P. 20 lbs.)		\$0.15	\$0.70	\$6.00
Painted, 10 in. (P. P. 25 lbs.)		.25	.80	7.00

JARDINIERS

We carry a complete line of Jardiniers, Vases, Flower Bowls and Fancy Art Ware.

RAFFIA

Natural color, highest quality. Long fibre.
Price Per lb., 40c; 10 lbs. 38c; 25 lbs. 35c; postage
extra. Write for quantity price.

HIGH GRADE PRUNING SHEARS

We offer a good assortment for every purpose for both professional and amateurs. PRICES POSTPAID.

No. 44 (see cut).—Professional. Highest grade, best style and design; full polish, double brass springs, adjustable lock nut, 8½ inch. Price \$3.85.

No. 46 (see cut).—Excellent style, full polish, strong and serviceable; 9-inch. Price \$2.25.

No. 48 (see cut).—Large, strong, durable, black handle, polished blade; 9-inch. Price \$1.50.

No. 48-B.—Same style as 48, black handle, polished blade; excellent value; 8-inch. Price \$1.00.

No. 49.—Same style as 48 but full polish, handles nicely; 9-inch. Price \$1.75.

No. 50 (see cut).—Henckel's high grade, full polish. Lock nut, easy to handle, strong and easy cutting; 8½-inch. Price \$3.25.

No. 54 (see cut).—Nickel finish, highest quality, excellent cutter; patent lock; 8-inch. Price \$1.25.

No. 56 (see cut).—Nickel finish, excellent quality, for light pruning or cutting flowers; 5½-inch. Price \$1.75; No. 56-A, 6½-inch, each, \$2.75; No. 56-B, 7-inch, each \$3.00.

TREE PRUNERS

Long handle tree pruners, indispensable for pruning tall trees. Reliable make, with spring; 6 feet, \$1.75; 8 feet, \$2.00; 10 feet, \$2.35; 12 feet, \$2.80. Extra blades 35c each. See cut No. 60.

POTS AND SAUCERS



No. 1 No. 2 No. 3 No. 4
Fig. 1—Fern Dish Filler; 2—Bulb Pan; 3—
Azalia or Fern Pot; 4—Standard Flower Pot. All
styles same prices. Not mallable.

Size	Each	Dox.	Saucers Each
2 inches	\$.03	\$.25	
2½ inches	.04	.30	
3 inches	.04	.35	
3½ inches	.05	.45	
4 inches	.06	.60	\$4.00
5 inches	.10	1.00	5.00
6 inches	.15	1.50	.06
7 inches	.20	2.00	.09
8 inches	.30	3.00	.12
9 inches	.50	5.00	.15
10 inches	.70	7.00	.20
12 inches	1.20	12.00	.30

Prices by express or freight. Not mailable.

SIMPLEX WATERPROOF LABELS

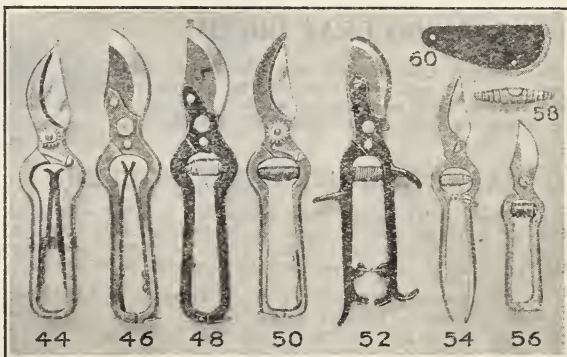
Ordinary pencil writing on the especially treated white celluloid will last for years. The transparent "Mica" cover slides over the writing and is securely held in place, protects the writing under the most severe weather conditions. Names can be removed with ordinary rubber eraser and labels used again.

Prices, with copper wire attachment:

No. 1—1½x3 inches. Dozen, \$.60; 100, \$3.00

No. 2— $\frac{3}{4}$ x4 inches. Dozen, .70; 100, 5.00

No. 3— 1x5 inches. Dozen, .90; 100, \$7.00



Pruning Shears

KNIVES

We keep a stock of high grade folding BUD-
DING, PRUNING, GRAFTING and POCKET
KNIVES at reasonable prices ranging from \$1.75 to
\$2.50, postpaid. Exchange or refund if not satis-
factory.

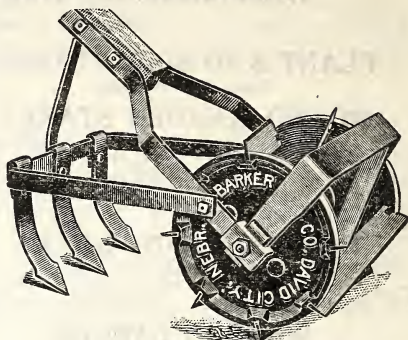
Barker Weeder, Mulcher and Cultivator

Use a Barker and you will do it quicker, easier and perfectly. For deep cultivation use the machine as shown in Model D, and for weeding and pulverizing the top soil you simply turn it over. (See Barker Jr.). The revolving reel blades, working in combination with the stationary weeder knife, destroys the weeds. The weeder blade granulates the top crust so that the soil pours evenly over the knife, leaving a level, perfect, moisture retaining top mulch.

You can do this work as fast as you can walk. We recommend the Barker. You make straight rows for seed with a Barker.

If the top soil is baked or hard, use the weeder side first and then reverse it and use the cultivator teeth for deeper work. Long, strong handle with cross bar, hand grip.

The Barker works to perfection in all soils except large gravel or rocky soil. Descriptive and illustrated folder on request.

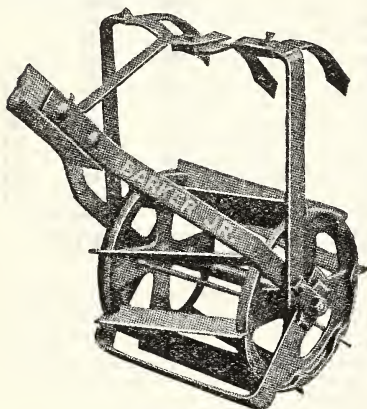


The Original Standard "Barker" Model D

Prices—Standard Model "D," No. 6-D, six inches wide, \$8.00; No. 9-D, \$9.50; No. 10-D, \$10.60; No. 11-D, \$11.75; and No. 12-D, 12-inch blade, \$12.60.

BARKER JUNIOR

The Barker Jr.'s are built of the same high quality material and expert workmanship and construction. They have open wheels in place of disk and are slightly less rugged. They will last for years under ordinary uses. See illustration Barker Jr. Prices Barker Jr.: No. 8½ Jr. (8½-inch blade), \$7.95; No. 10 Jr. (10 inches), \$8.45.



Barker Jr.

PLANET JR. GRASS EDGER

A real success. You can edge as fast as you walk. Steel wheel, with hub to run on walk. Price \$2.00; postpaid \$2.25.



Planet Jr., Grass Edger

BAMBOO LEAF BROOM

The lightest and handiest lawn broom or rake ever made. If you ever used one you would not part with it. For cleaning up leaves, grass or litter it has no equal. Each 40c. Not mailable.

GOODWIN GRASS SHEARS



Latest and best grass clipper. No. 10, \$1.75; No. 20, \$1.50. By mail, 15c extra.

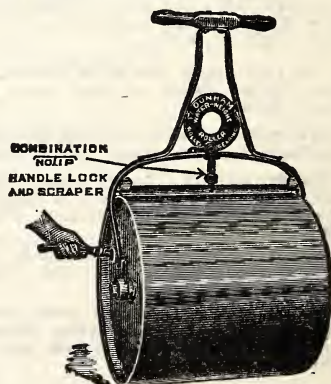
WATER-WEIGHT LAWN ROLLERS

Best lawn roller made. Steel drums can be filled with sand or water to make them heavier. Roller-bearing, easy running. Every lawn, new and old, needs rolline. Ask your gardener. We "rent" these to our customers in Portland. \$2.00 per day.

	Drum Size	Weight Empty	Filled Water	Sand	Portland Prices
No. WB5	18x24 in.	80 lbs.	300 lbs.	500 lbs.	\$18.75
No. WB7	24x24 in.	125 lbs.	500 lbs.	800 lbs.	25.00

LAWN MOWERS

We do not carry a wide variety, but we do offer the most popular standard makes that run easily, wear well and do satisfactory work. There are many cheap machines on the market that are only "disappointment." The Great American is generally recognized as the most popular make. Call or write for prices.



PLANET JR. GARDEN TOOLS—Limited space in this catalog will not permit us to show Planet Jr. Seeders, Cultivators, etc., but we will gladly mail you a complete Planet Jr. catalog if you are interested.

We give the P. P. (Parcel Post) weight so you can add postage if wanted by mail. Don't forget to send it extra.

CORN AND POTATO PLANTERS

Save time, labor and backbone. Add postage if wanted by mail.

ACME CORN PLANTER.—(See cut No. 6.) A two-handed planter, light and durable. Adjustable from large to small corn and beans. (P. P. wgt. 6 lbs.) Price \$1.35.

EUREKA TUBULAR POTATO PLANTER.—(See cut No. 7.) Plants any size seed, and at an adjustable uniform depth. Opens automatically by forward movement; most satisfactory in every way. (P. P. wgt. 5 lbs.) Price \$1.75.

PINGREE POTATO PLANTER.—(See cut No. 8.) Similar to the tubular, but has no tube. You lift the planter up to drop in the potato. (P. P. wgt. 5 lbs.) Price \$1.25.

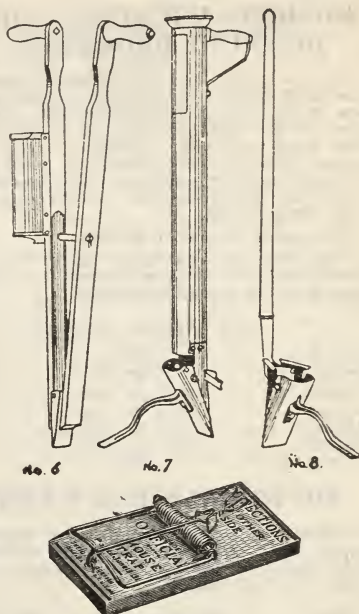
BROADCAST SEEDER



NEW CYCLONE
One of the best broadcast hand sowers in the market. Guaranteed to sow perfectly all varieties farm seeds. Can be regulated to sow any amount per acre. It is strongly built and mechanically perfect. The bag holds $\frac{1}{2}$ bushel. Easily operated. (Mailing weight 4 lbs. Price, \$2.25.

HORN SEEDER.—Well liked. Each \$1.00.

CAHOON SEEDER.—Popular and well known broadcast seeder. Price, \$4.50. (Wgt. 10 lbs.)



Official

MOUSE AND RAT

CHOKER (see cut).—Easy to bait and sure to catch 'em; 4 holes. 20c each; 25c postpaid.

OFFICIAL (see cut).—Double acting trigger, extra heavy spring, hardwood base, lasting; sure to catch. **RAT TRAP**, 20c each, 2 for 35c, postpaid. **MOUSE**, 10c each, 3 for 25c, postpaid.

HOLDFAST.—Most popular and best known bait or foot trigger trap. **RAT TRAP**, 15c each, postpaid. **MOUSE**, 2 for 15c, 6 for 40c, postpaid.

MOLE AND GOPHERS OUT O' SIGHT MOLE TRAP

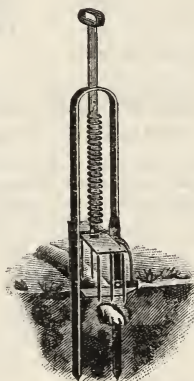
This has been the Standard Mole Trap for many years. It is absolutely reliable.

Directions for setting and full explanation of the mole's habits furnished with each trap. Heavy, powerful spring, malleable iron jaws.

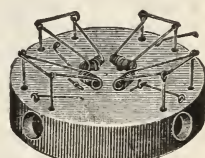
Price, \$1.25; postpaid, \$1.35.



Out o' Sight



Reddick Mole Trap



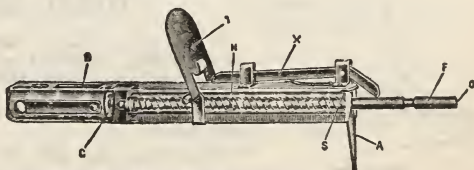
Choker

REDDICK

A very popular mole trap, 2 ft. high, 6 spear points, well made, lasting and durable. Each, \$1.00, or \$1.30 postpaid.

Mole, Gopher and Rat poisons and Rodent Gas Balls, see page 89.

THE NEVER-FAIL GOPHER GUN



It is Easy to Kill Gophers and Moles With This Gun

Load gun with a 38 S. & W. Blank cartridge (as sold by dealers everywhere) and set in gopher tunnel. Within a few minutes the gopher will attempt to close the hole, setting off the gun. The concussion kills them every time. For Moles, dig down to main run and set same way. Complete instructions with each gun. Price, \$1.75, each; 2 for \$3.40, postpaid. Blank cartridges, 25 for 50c.

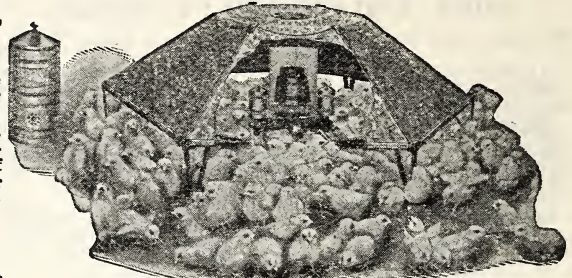
BROODERS—SUCCESSFUL AND UP-TO-DATE

SOL-HOT WICKLESS OIL BURNING BROODERS

If you buy a "Sol-Hot" you will have the satisfaction of knowing you are getting one of the best. A brooder that will raise your chicks with less losses, less danger, less worry and with a minimum fuel expense. Can be used in most any kind of a light, properly ventilated room, brooder house or the open front poultry house with drop curtain.

Descriptive folders on request.

We offer you the latest model Twin Float automatic oil level control—100 per cent safe, 100 per cent efficient.



1928 Model Sol-Hot Brooder

CUT PRICES FOR 1931

Size of Canopy	Chick Capacity	Latest Model
24-inch.....	75 to 100.....	\$10.00
34-inch.....	200 to 300.....	\$15.00
44-inch.....	400 to 500.....	\$18.00
54-inch.....	600 to 1000.....	\$20.00
65-inch Giant.....	1000.....	\$22.50

UP-TO-DATE EGG CARRIERS

These are double strength and cushion frame on all sides. Note the illustrations carefully. Safe and reliable for the mailing or expressing of "fancy eggs" for hatching.

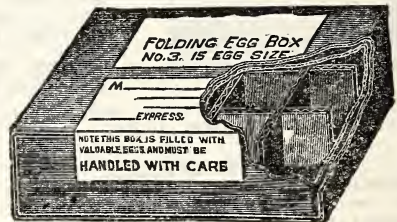
Size	Doz. Wgt.	Each	Doz.
15 egg	12 lbs.....	25c	\$2.75
30 egg	20 lbs.....	40c	4.50
2 dozen	18 lbs.....	35c	4.00
8 dozen	28 lbs.....	50c	5.50
4 dozen	35 lbs.....	60c	6.50

Add postage if wanted by mail

Baby Csick Poultry Punches.—Used for marking the web between the toes of baby chicks.

Petty's Poultry Punch.—Postpaid 25c.

Ideal.—Plier style; good size, well made; does neat work. Each 50c, postpaid.



15-Egg Size. Open Corner Showing Egg Cells

PERFECTION BABY CHICK BOXES

These insure the safe arrival of your chicks

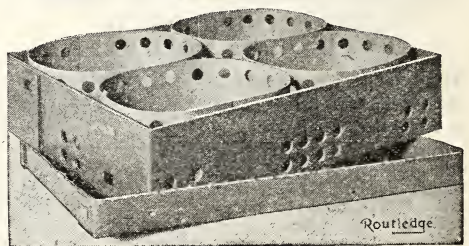
New model—latest and best. No corners to crowd into, even temperature, perfect ventilation without direct draft on chicks. Extra strong, well made, best grade of corrugated cardboard. Shipped in the flat, but quickly set up by anyone. Order early and be sure of stock. Prices include staple fasteners.

CUT PRICES FOR 1931

Size	Weight, Empty	Each	Doz.
25 Chick	P. P. 1 1/4 lbs.	20c	\$2.00
50 Chick	P. P. 2 1/4 lbs.	25c	2.75
100 Chick	Wgt. 3 lbs.	35c	3.50

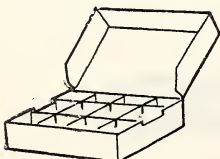
Low price per 100

NOTE.—Add ample postage if wanted by parcel post. 100 SIZE TOO LARGE TO MAIL.



New Perfection 100-Chick Box

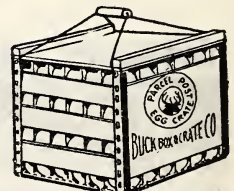
IDEAL EGG BOX



The Ideal
12 Egg Packer

Every poultry keeper who sells eggs should use these folding cardboard egg boxes to deliver eggs in. They are folded flat, but the corners are locked, all ready to open up and drop the eggs in. No errors in counting, as each holds just one dozen.

Price—Per doz. 20c (P. P. 1 1/4 lbs.); 100 for \$1.00 (P. P. 11 lbs.); 1,000, \$8.00.



Buck 12 Dozen
Egg Crate

BUCK 12-DOZEN EGG CRATE

Made of wood, cardboard fillers. Very light, but strong; metal corners; holds 12 dozen eggs; lock wire bale, wooden handle. (P. P. weight 5 1/2 lbs., set up.) 12-Doz Size, Each 75c.

Leg Bands for Poultry and Pigeons



CHAMPION ADJUSTABLE

This band (see illustration above) is made in one piece and adjustable to fit any fowl. They will stay where you put them. Held by double lock.

This is our most popular numbered band. Put up in packages numbered 1 to 12, 13 to 25, 26 to 50, 50 to 100, and boxes 100 to 200, 201 to 300, and in even hundreds up to 1,000.

NOTE.—We do not break above packages.

PRICES: 12 for 20c; 25 for 25c; 50 for 40c; 100 for 65c; 500 up at 60c per 100.

ADJUSTABLE WING BANDS

For Chicks or Pigeons

$\frac{1}{2}$ -inch wide, numbered, the same prices as "Champion" Poultry Band above.

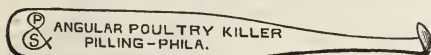
COLORLED SPIROL

Made like a key ring—easy to put on, nothing to catch or tear off. Ten colors—red, white, yellow, black, pink, green, garnet, purple, light blue, dark blue. Prices, postpaid, 12 for 15c; 25 for 25c; 50 for 40c; 100 for 60c; 500 up, @ 50c. Baby chick size, 45c per 100. When ordering name the breed and age and colors wanted.

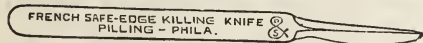
POULTRY KILLING KNIVES



RUSSELL.—This is a very popular style. Full size, good grip, $4\frac{1}{2}$ -inch wood handle, highest quality 8-inch steel blade. Postpaid, 60c.



ANGULAR.—Nickel plated handle.....50c



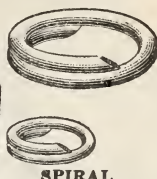
FRENCH.—Nickel plated handle.....50c



ECONOMY



DOUBLE CLINCH



SPIRAL

ECONOMY COLORED BANDS for Poultry and Pigeons

Handsome, two colored, $\frac{1}{2}$ inch wide, aluminum back, celluloid face, well made and durable. Large, plain, double numbers from 1 to 300 in red, green, pink, blue and black. Fasteners very secure if doubled back and pressed tight. We can supply these only in Leghorn and Rock sizes. (See cut above.) Prices: Doz. 25c; 25 for 40c; 50 for 70c; 100 for \$1.25.

PIGEON SIZE, same colors and same style numbered 1 to 100; same prices.

SURE CLINCH POULTRY BANDS

This new aluminum band is very neat, smooth and well made, $\frac{3}{8}$ inch wide, adjustable to 3 sizes. Note the 3 holes in illustration. Numbers from 1 to 1,000.

Prices: 12 for 20c; 25 for 35c; 50 for 60c; 100 for 85c; 500 up at 75c per 100.

LIME AND GLASS EGGS



OPAL GLASS NEST EGGS.—Best grade. 3 for 10c; doz. 40c; 3 doz. \$1.00.

LIME NEST EGG.—Nonbreakable. Very natural. 3 for 10c; 12 for 45c; 3 doz. \$1.20, postpaid.

Each, 3 for 10c; 12 for 40c, postpaid; per gross \$3.75.

Medicated or Lice Repellant.—Sale discontinued; government agents condemn them.

X-RAY EGG TESTER.—Lamp style, 75c.

High Grade

THERMOMETERS

Tyco's Tested

INCUBATOR THERMOMETERS

TYCO'S CERTIFIED.—Same style as No. 22. Scale is etched on glass tube as well as metal back. "Certified correct," worth the price. Each \$1.25 postpaid.

NO 22 "TYCO'S".—Very popular. Can be suspended on a wire on level with eggs or set on the metal. Price \$1.00, postpaid.

NO. 23 TYCO'S.—Has folding legs, adjustable; to be set up in egg tray. Postpaid 95c.

St. Helens Style\$1.00

BROODER THERMOMETERS

NO. B29.—Tyco's high-grade, white figures on black metal scaled from 60 to 130 above; temperature readable above the hover. Postpaid \$1.00.

NO. 30.—Long, round wood holder. Used in International Sanitary hovers, also brooder houses. Postpaid, each, \$1.00.

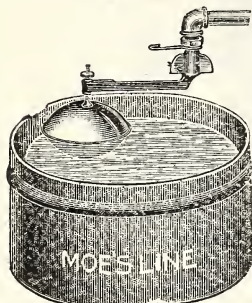
NO. 28 (see cut).—To hang under the large hovers or for poultry houses; high grade, desirable style; scaled. 85c postpaid.

St. Helens Brooder Thermometer\$1.00

TAYLOR'S INCUBATOR HYGROMETERS, NO. 40.—"Moisture indicator." Millions of chickss die in the shell every year for want of proper moisture conditions. Use this practical, successful Hygrometer to show you proper conditions. Price with full directions, \$1.75. Extra wicks, 15c each. Descriptive booklet on request.

AUTOMATIC WATER VALVES

Keep your birds, pets or stock supplied with fresh water without any trouble. Let the automatic aucets do it.

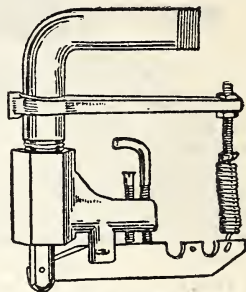


Moe's Automatic

MOE'S NEW AUTOMATIC.—A perfect automatic valve and float, to regulate the flow of water. The valve mechanism is entirely of brass, nickel finish, with nothing about it to rust or clog up. Positive in action. A great labor saver.

Price, Moe's No. 30, Automatic Valve and Float, each, 90c; postpaid, each, \$1.00.

THE GUARANTEED.—Equipped with a governing stem or screw that controls the water flow automatically and pocks or acts as cut-off when water pan is full. (See cut). Price, \$1.60, postpaid.



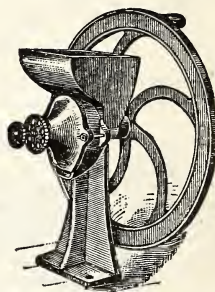
Guaranteed

POULTRY BOOKS.—We stock the latest and most practical. Write for descriptive list with prices.

STOVER GRINDING MILLS

A practical well made. Has universal burrs, or grinding plates, that are quickly adjusted, and locked for grinding coarse or fine. Will grind any kind of grain or seeds, dry bone, shells, crockery, etc.

No. 32.—Has a 16-inch fly-wheel and is light running; the capacity is not equaled by any other of the same size. Weight 40 lbs. Price \$6.25.



Stover Grinding Mill
No. 32

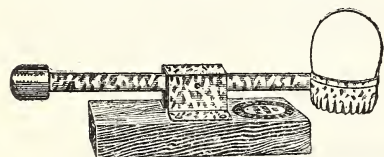
EGG GRADING SCALES

ACME NO. 2.—Especially adapted to Pacific Coast trade. Grades all weight from 18 to 26 oz, without any changing or adjusting. Made entirely of aluminum, rust-proof and practically indestructible. Will meet the requirements of any state bureau of weights and measures.

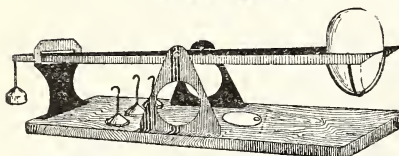
The operation of this scale is so simple that a child can operate it. By placing an egg in the cup the beam will automatically adjust itself. The lowest visible number on the blades will indicate the weight in ounces of one dozen like eggs. Price \$3.00, postpaid \$3.15.

STANDARD.—Very simple in construction, yet very accurate and quick. Made in two sizes, 19 and 22-ounce grades. As they are so inexpensive and it is so handy to have the two graders all set, everyone should have one of each size. Price, 2 for \$1.00; single scale, 60c postpaid. State which grade or size is wanted. See illustration.

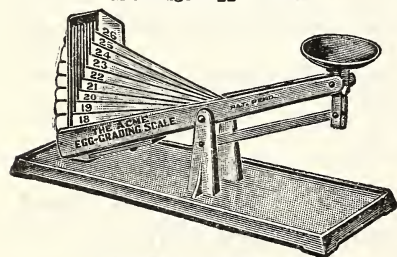
GILT EDGE (See cut.).—Used throughout the United States. Extra well made, yet simple in construction; quick and easy to operate; weighing capacity, 18 to 29 ounces per dozen. Price \$1.25, postpaid \$1.35.



Standard Egg Scale



Gilt Edge Egg Scales



Acme Egg Scales

The Same Amount
Of Feed Will
Raise Each



CAPONIZING INSTRUMENTS

Poultrymen can double their profits by Caponizing the young cockerels. The operation is easily learned. The instructions are so full and explicit that any one, after a careful reading and a little practice, will be able to caponize. **FREE BOOKLET ON REQUEST.**

LANDSDOWN SET NO. 1.—Very popular, easy for the beginner. Price \$3.50, postpaid.

VALENTINE'S.—Made of high quality materials for a local breeder, who claims it is the most practical set yet offered. Illustrated leaflet on request. Price \$3.50, postpaid.

JERSEY.—One of the new sets. Highly recommended. Price \$4.00, postpaid.

PHILADELPHIA is O. K. and has many admirers and is the most popular and best seller. Price, cardboard box, \$2.50; wooden box, \$2.75 postpaid.

PROGRESSIVE OAT SPROUTER

No other green feed takes the place of the wonderful quickening virtue of the young, growing oat sprouts.

The State Experiment Stations and the national egg laying contests all feed Sprouted Oats.

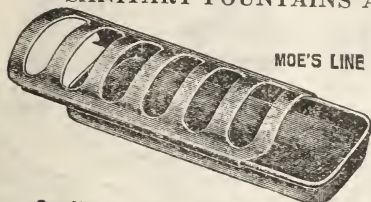
If you want lots of eggs in winter when the price is high and in summer when the grass is dry, feed Sprouted Oats.

The entire sprouter, with exception of frame work, is made of heavy galvanized steel, with a hydro safety lamp to supply heat.

In operation the dry oats are placed in the soaking tank at the top and then covered with water. The next morning the tank is drawn forward about four inches and inverted, dropping the soaked oats into the first top section, and soaking tank refilled. The next morning the sliding metal bottom of the top section is drawn forward and the oats drop into the second section, the sprouted grain being removed each morning from the drawer at the bottom.

REGULAR PRICE \$21.00—SPECIAL FOR \$16.00.

SANITARY FOUNTAINS AND FEEDERS



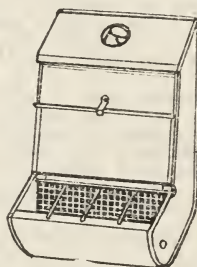
MOE'S LINE

Sanitary Food Trough No. 21.

SANITARY FOOD TROUGHS

For Poultry and Ducks of All Sizes.—Saves 15 to 25 per cent in foodstuff. Made of heavy galvanized iron; no sharp or rough edges to injure the birds; patent top, slides off. Safe, sanitary, saving and serviceable. (See cut.)

No. 21.—12-in. (P. P. wgt. 1¼ lbs.) Special..35c
No. 22.—18-in. (P. P. wgt. 2 lbs.) Special..50c
No. 23.—24-in. (P. P. wgt. 2½ lbs.) Special..60c



No. 36

Dry Mash Hopper

DRY MASH HOPPER

A hopper of the greatest merit. Made of heavy galvanized iron. Birds can't waste the feed and it's "rat proof" when closed. (See cut.)

Special Cut Prices

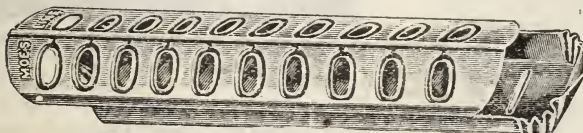
No. 35	8½ in.	6 lbs.	10 qts.	\$1.25
No. 36	12 in.	7½ lbs.	18 qts.	\$1.75
No. 37	24 in.	12 lbs.	36 qts.	\$2.25

ADJUSTABLE FEEDER AND FOUNTAIN



Adjustable Feeder and Fountain No. 139

Magazine feeder and fountain, adjustable up and down to feed slowly or rapidly chick feed, mash or buttermilk. Latest and best, sanitary and serviceable, heavy tinplate. Capacity about 2 qts., 12 feeder holes. No. 139—Cut Price, 65c, or 75c postpaid.



Small Chick Feeders No. 20

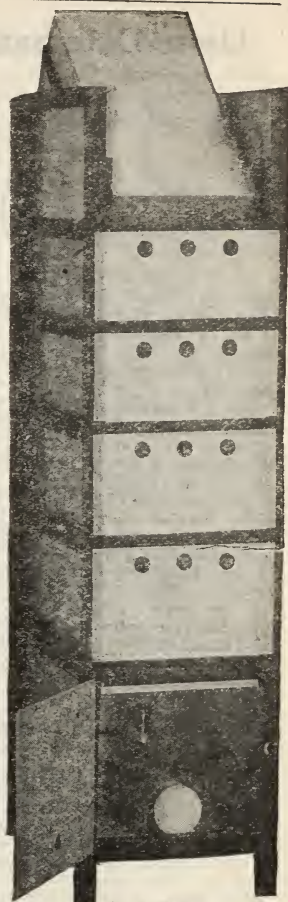
SMALL CHICK FEEDERS

Well made, sanitary feeders for feed, water or buttermilk. Made of heavy tinplate, sliding top easy to clean.

No. 137.—10 inches long, 10 holes; Special, 30c; 40c postpaid. No. 138.—20 inches long, 20 holes; Special, 40c, or 50c postpaid.

MOE'S FEEDER AND EXERCISER

The best combined feeder and exerciser. Cannot clog. Swinging deflector scatters the grain all around, a little at a time. Hank up in scratching shed. No. 53 Holds ¼ bu.; 28 inches high; (weight 9 pounds) cut price \$1.25.

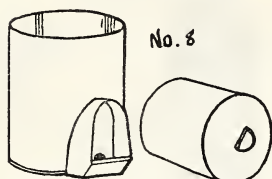


Progressive



Feeder No. 53

Up-to-Date Sanitary Drinking Fountains and Feeders



STONE FOUNTAIN

No. 3.—(Not mailable). Price, 1-qt., 50c; 2-qt. 75c; 4-qt. 90c; 8-qt. \$1.50. (Cannot send parcel post).

Store Price, not packed, quart 45c, 2-quart 65c; 4-quart 75c; 1-gallon \$1.25.

No. 4 STAR FOUNTAIN.—Chicks can not get in it. Any pint, quart or 2-quart Mason jar fits it. Price (without jar), 10c each, or 15c each, \$1.35 doz., postpaid.

No. 6 PERFECT CHICK SERVER.—Enamel pan to fit any Mason jar. You fill the jar with water, buttermilk, grain or mash; screw on the pan and turn it over. Each 15c; doz. \$1.50, postpaid.

No. 8 CHAMPION TELESCOPE FOUNTAINS.—The full length telescope top pulls out, making it easy to clean inside. $\frac{1}{2}$ gal., \$1.00 (P. P. wgt. 2 $\frac{1}{2}$ lbs.); 1 gal., \$1.25, wgt. 3 $\frac{1}{2}$ lbs.; 2 gal., \$1.60, wgt. 5 lbs., 3 gal. with 3 cups, \$2.50, wgt. 10 lbs. (Wgts. include packing for P. P.)

No. 11 GALVANIZED FEEDERS.—Made of galvanized iron; soon pay for themselves. Extra strong and well made; the feed trough at bottom is round. No corners for the feed to lodge in and get sour. Moe's No. 9—3 Section, 3 pints each. (P. P. wgt. 4 lbs.) Each 85c. Moe's 4 Sections (P. P. wgt. 5 lbs.) Each \$1.20.

No. 12 CHICK SERVER.—Top lifts off; chicks cannot get into it. For water or feed. 8-hole, Each 15c; Large, 12-hole, Each 25c. By mail 10c extra or 40c doz.

VEGETABLE RACK AND FEEDER.—For feeding poultry greens, cabbages, etc. Also a fine rabbit feeder. Put the hay or greens behind the wire rack and grain in the trough below. See cut. 9x13 inches. (P. P. wgt. 2 $\frac{1}{2}$ lbs.) List price 90c; our special price only 75c.

Don't forget to add postage if wanted by Parcel post.



No. 3



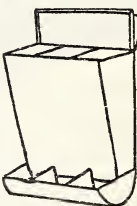
No. 4



No. 6



Vegetable Rack



No. 11



No. 12

POULTRY REMEDIES

H. Q. LICE AND MITE LIQUID.—Satisfaction guaranteed or money refunded. Prices, qt. 50c; 2 qts., 80c; gal. \$1.20; 5 gals., \$4.00.

H. Q. PINE-OIL has many uses, but the chief one for the poultryman is in connection with colds, roup, canker, chicken pox, etc. We recommend it highly. Full directions on label.

Prices.—6 oz. 35c; 16 oz. 60c; Qt. 85c; Gal. \$2.00.

H. Q. RED CAPSULE WORM REMEDY.—An individual treatment that promptly expels intestinal worms in chickens without any bad after effects.

Place one capsule well down the bird's throat and the intestinal worms will be expelled within 48 hours.

Descriptive leaflet on request.

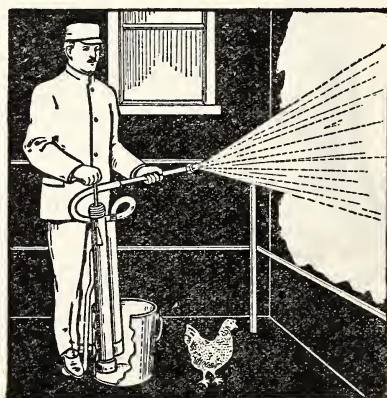
CHLORINE.—Known and recommended from coast to coast as a specific and conditioner for Baby Chicks and grown fowls. Use in the water as a preventative and cure of cholera, roup, limber neck, worms, coccidiosis and white diarrhoea. Use Chlorine; it pays big returns. PRICES.—6-oz. bottle, 40c; postpaid, 45c; 16-oz. bottle, 70c; postpaid, 80c; 1 gal., \$2.50; 5 gal. \$11.25. Full directions on each container.

OCULUM FOR POULTRY.—"Oculum" is not a stimulant but is a scientific germicide. It destroys disease germs in the bowel and keeps fowls healthy.

PRICES.—Trial size, 1 oz. (240 feeds), 15c; 50c bottles 60c postpaid; \$1.00 bottles, \$1.10 postpaid; \$2.00 pints; postpaid, \$2.25. Extra Glass Syringes, 15c.

H. Q. NORWEGIAN COD LIVER OIL.—Rich in Vitamins.—Per gallon, \$2.75.

LEE'S GERMOZONE.—Used in the drinking water to combat white diarrhoea, colds, roup, etc. Prices—4-oz. bottle, 40c, or 50c postpaid; 12-oz., 75c, or 90c postpaid.



Whitewashing with a "Whirlwind" No. 28 Spray Pump. See page 87

LEE'S GIZZARD CAPSULE.—For worms in poultry. Prices—Adult size, 50capsules \$1.00; 100 for \$1.75; 500 for \$7.00. Chick size, 100 for \$1.00; 500 for \$4.50.

LEE'S LOUSE POWDER.—A standard and well known brand. Prices—1-lb. can 50c; 2 $\frac{1}{2}$ -lb. can \$1.00. Add postage by mail.

TRENGOVE'S NON PICK.—To prevent toe and rump picking, feather pulling and cannibalism among poultry. Prices— $\frac{1}{4}$ -lb. tin (500 chick size) 75c; $\frac{1}{2}$ -lb. tin \$1.00, postage extra.

POULTRY FEED.—Beef scraps, oyster shell, grit, alfalfa meal, charcoal, poultry pepper. All grain and mash foods, etc. Write for prices.

SONG AND CAGE BIRDS

We are the largest Importers and dealers in Birds and Gold Fish in the Northwest. This department of our business has grown rapidly and we have incorporated the Routledge Bird, Pet and Animal Company with headquarters at our new East Side Store, Grand Avenue and Stark.

We Guarantee Our Singers and Will Exchange if Not Satisfactory



IMPORTED AND AMERICAN CANARIES

Their cheery song is like sunshine to the soul; their bright plumage, active ways and cheerful dispositions make them great favorites. For your convenience we have inclosed with glass "Bird Parlors" on our first floor. You are welcome at any time. Come in and see our birds and hear them sing.

ST. ANDREASBERG. World-renowned and the sweetest singers on earth. These birds have been given a musical training; their song is sweet and soft with many rare and pleasing notes, trills, rolls, etc. Prices—Imported Singers, \$15; Females, \$2.50.

NOTE—Some try to get a fancy price for American raised St. Andreasberg, but they do not have the correct song. We sell them if they have had good training as select Hartz Mountain Singers.

HARTZ MOUNTAIN SINGERS. Beautiful and incessant singers, always bright, active and cheerful. Some singers in this class are almost equal to the above, especially where they have had special training. Prices—Males, \$7.50; select Singers, \$10; select Females, \$1.50; ordinary, \$1.00

PARROTS AND PAROQUETS

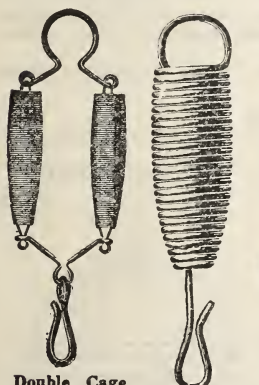
AUSTRALIAN PAROQUETS.—Often called Lovebirds. A little larger than a canary in size, long tails, plumage green, very intelligent and beautiful. Each, \$4.00; pair, \$7.50. For Paroquet or Love Bird Mixed Seed, see page 101.

PANAMA PARROT.—The most popular with our trade. Easily taught. Deep green plumage. Young, 6 to 8 months old, each, \$30.00; Trained Talkers, \$50.00 and up.

B B OR DWARF PARROTS.—Their gentle disposition and winning ways make them great favorites. Green plumage. Each \$7.50.

CANARY WARBLERS

Train your bird to warble and whistle. Warbling imitation birds, with whistling tube attached. Fill with water and blow into tube to make warbling sound. 2½ inches high. Price each, metal 25c; celluloid 35c, postpaid.



Double Cage
Spring 35c

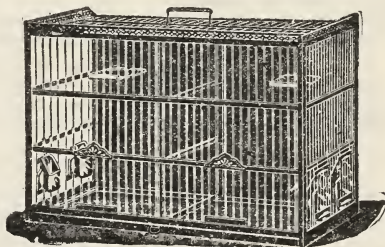
Single Spring
Each 15c

CANARY BATHING DISHES.—Opal or glass, large size 30c, small, 25c postpaid.

NESTING HAIR.—15c pkg.; 2 for 25c.



Wire or Willow nests 20c, postpaid, 25c



BREEDING CAGES

All metal, enameled white, all complete.

No. 86 Single, 17½ x 8¾ x 14	in. high.. \$5.00
No. 86 Double, 19½ x 10 x 14¾	in. high.. 6.00
No. 87 Double, 22 x 11 x 16½	in. high.. 7.00
No. 88 Double, 24½ x 12½ x 17	in. high.. 8.50

Prices on
Extras
5c Less at
Our Store



Cage Suspension Spring and Adjustable Chain, Each 35c

LIVING PRESENTS.—Did you ever stop and consider what a desirable Christmas or birthday present a beautiful CANARY makes? They are so different, interesting and desirable, SO CHEERFUL AND LOVABLE.

CAGES—Continued

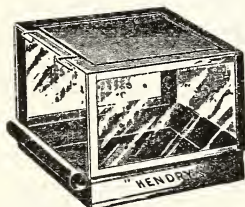
NEW COLORED CAGES

The new two-tone colored cages are now very popular. The general style is much like the "Imperial" but the base is flat, with straight sides. Very handsome looking cages. **COLORS RED, BLUE or GREEN.** All have seed screen guards and seed cups to match. **Prices—10-in., \$4.00 to \$5.00; 11-in. wide, \$5.00 to \$6.00.**

PERFECTION BRASS CAGES

A new and beautiful, fancy design, having all the good and desirable features of the new model, up-to-date cages. The graceful curved wire on the upper part makes it attractive and very pretty. New style wide moulding base with sliding cleaning pan.

No.	Size, Inches	Price
440—With guard.....	10 $\frac{3}{4}$ x8 $\frac{1}{2}$ x15 $\frac{1}{2}$	\$13.35
455—With guard.....	9 $\frac{1}{2}$ x7 x14 $\frac{1}{2}$	10.75



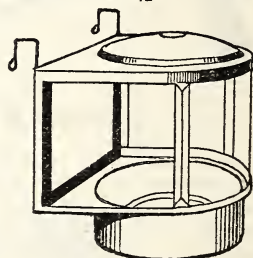
Hendryx Glass Bath House

GREEN ENAMELED CAGES

A neat, well made cage without guard. Enameled green. Oblong, straight sides. 3 sizes: 6 $\frac{1}{2}$ x10 \$2.85; 7 $\frac{1}{4}$ x10 $\frac{3}{4}$ \$3.15; 8x12 \$3.75.

GLASS BIRD BATH ROOM

Ideal in every way. To prepare the bath, fill the bottom half full of warm water, open the cage door and hook bath house before it.



Delta Bath House

DELTA—NEW STYLE—Fits round or square cages. Strongly constructed, visible celluloid shield makes it light in weight. (See cut). Price, brass \$1.25; White, Red or Green Enamel \$1.00 each. For packing and postage send 15c extra.

HENDRYX—(See cut). Removable glass sides and glass top. Easily cleaned. Finished in white, red or green enamel. Price \$1.00, \$1.25 by parcel post.

BIRD CAGE WALL BRACKET HOOKS

DANDY BRACKET—(See cut). Heavy nickel-plated wire, 8 in., 25c; 10 in., 35c; 12 in., 50c; Brass, 8 in., 30c; 10 in., 45c; 12 in., 55c, postpaid. 5c less if called for.

ACME BRACKET—(See cut). Cast, fancy design, brass plated. 12 in., \$1.00; postpaid \$1.10.

CUTTLE BONE HOLDERS

Inexpensive, but a great convenience. The brass wire frame holds the cuttle bone so firmly that the bird cannot loosen it, and you don't ruin the cage by squeezing it in between the wires.

Price: Holder only, 15c; holder, with cuttle bone, 20c, postpaid.

BIRD CAGE STANDS

HALF CIRCLE—Solid base, all Brass, \$3.50 to \$4.00; COLORED to match cages above, \$4.00.

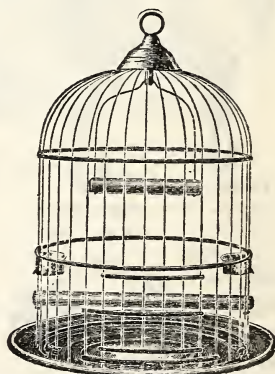
FULL CIRCLE—Brass only, \$5.00 to \$6.00.

ROUND PARROT CAGES

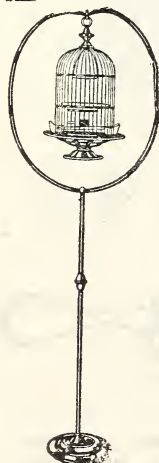
These are very popular on account of the low prices.

No.	Diameter	Height	Price
No. 70	12 in.	20 in.	\$ 4.20
No. 75	13 in.	21 $\frac{1}{2}$ in.	4.90
No. 80	14 $\frac{1}{2}$ in.	23 in.	6.85
No. 85	16 in.	24 in.	8.85
No. 90	17 $\frac{1}{2}$ in.	30 in.	11.95
No. 91	22 $\frac{1}{2}$ in.	39 in.	16.85

PARROT FOOT CHAINS, 50c; PERCHES, 50c; SWINGS, 35c.



Parrot Cages
PARROTT STANDS
Hendryx, \$15.00.
Eclipse, \$9.85.



BIRD CAGE FEED AND WATER CUPS

We carry a large and varied stock of both opal and plain glass. We illustrate the three most popular styles. We have tried to make the following descriptions plain. Should you get the wrong style, return them and try again. Your choice, Opal or Plain Glass:

NO. 1902.—See illustration. Opal or Plain Glass, each 15c; postpaid, 20c each; 2 for 35c.

NO. 1904.—See illustration. Opal or Plain Glass, each 15c; postpaid, 20c each; 2 for 35c.

NO. 1913.—Opal only, see illustration. Postpaid, 25c; 2 for 45c.

NO. 1914.—Square.—Plain Glass, same style as No. 1913 but larger, for Breeding Cage and Robin Cages. Postpaid, 25c; 2 for 45c.

NO. 80.—Round Opal for Bungalow Cages. Postpaid, 20c; 2 for 35c.

NO. 90.—Round Glass, 1 inch deep, to set on the floor of cages for feed or sand. Postpaid, 20c; 2 for 35c.

NO. 25.—Similar to 1904 except that it is open top and can be filled from the outside if you wish to. Your choice, Opal or Glass, 15c each, or 20c each postpaid; 2 for 35c.

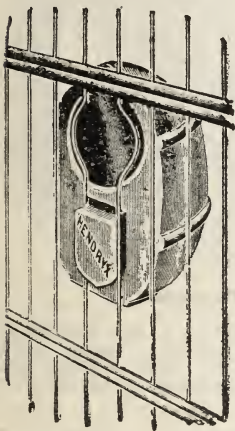
TONIC OR MEDICINE CUP

This is a small cup that slips in between the cage wires and holds about a tablespoonful. Ideal for feeding Health or Song Food, Tonic, etc. Price 15c; 2 for 25c; postpaid.

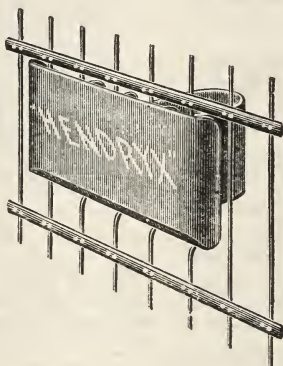
EXTRA PARTS, ETC.

BIRD CAGE PERCHES (give length)—10c; SWINGS, 25c. (Nests and springs, page 17.)

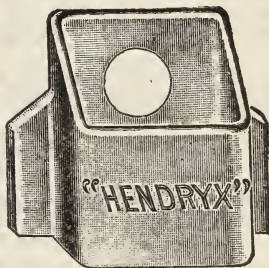
PARROT FOOT CHAINS, 50c; PERCHES, 50c; SWINGS, 35c.



Bird Cage Cup, No. 1904



Bird Cage Cup, No. 1902



No. 1910

PARROT FOODS, TONIC, ETC.

H. Q. MIXED PARROT SEEDS.—This is our own mixture of clean, well cured sunflower, hemp, pumpkin and corn, properly mixed. Your "Polly" will like this. 25c lb.; 5 lbs. for \$1.00; postage extra.

H. Q. SUNFLOWER.—We offer only large, plump, full-meated seed properly cured; superior to the average stock sold. 20c lb.; 5 lbs. for 90c; postage extra.

ROUTLEDGE GENERAL PARROT TONIC.—Prepared by us expressly for parrots afflicted with indigestion, diarrhoea, catarrh and being off feed. Postpaid 30c.

ROUTLEDGE PARROT SPRAY.—Will cure parrots of the habit of biting off their feathers. Per bottle, 50c; postpaid 60c.

PARROT CORN.—Best quality for parrots. 15c lb.; 4 lbs. 60c; postage extra.

H. Q. PARROT INHALENT.—For colds and catarrh. Directions on bottle. Price 50c.

LOVE BIRD (Parroquet) MIXED SEED.—A perfectly balanced food. 25c lb.; 5 lbs. \$1.00, postage extra.

BIRD BOOKS

"CARE, FEEDING and BREEDING of CANARIES."—A book of real information regarding Canaries. Also informs you how and what to use to overcome disease and trouble. It is based on many years of experience and study; 48 pages, nicely illustrated and well printed on heavy book paper. WORTH A DOLLAR, but priced at 25c; postpaid, 30c.

FEATHERED PETS.—140 pages on breeding, care and food for Canaries, Finches, Parrots and all cage birds. Postpaid50c

PARROTS AND TALKING BIRDS.....50c

AMERICAN BIRD FANCIER75c

CANARIES AND OTHER CAGE BIRDS.—New, just out, 84 pages, 5 by 7 inches, nicely illustrated, up to date. Postpaid.....55c

PARROT SPRAYERS.—For applying sprays. Nickel plated, well made and lasting. Each \$1.50, postpaid. See Utilex Sprayer, page 87.

POLLYCRACKER (Spratt's).—Made especially for parrots for a "treat" and change of diet. Per carton 25c; postpaid 30c.

LIVING PRESENTS.—Did you ever stop and consider what a desirable Christmas or birthday present a beautiful BIRD makes? They are so different, interesting and desirable, SO CHEERFUL AND LOVABLE.

ROUTLEDGE H. Q.—“Highest Quality”—BIRD FOOD

We are making a specialty of Bird Foods and Remedies and carry in stock the largest and only complete line in the Northwest. Our rapidly increasing trade shows that the public appreciates the opportunity to get H. Q. “HIGHEST QUALITY” foods and remedies of “MERIT” for their pets.

H. Q. ROLLER BIRD SEED

Our own special mixture for American, Hartz Mountain and St. Andrewsberg Canaries; especially prepared for the singers. Contains no hemp, but the correct proportions of highest quality re-cleaned Canary, Sweet Rape, small Golden Millet and a few other seeds to give health and “pep” to the singers.

It is no wonder that thousands of canaries die annually from the effects of common Bird Seeds put up by grocery and drug companies. It is generally old, musty or dusty, inferior seeds, and not correctly mixed.

Try a package of our H. Q. and note the difference, and also the saving, even though it is a little higher in price.

“H. Q.” sold only in sealed 1-lb. cartons.

Price, large full pound cartons, with small envelope of Bird Sand and piece of cuttlebone, 25c lb. Add postage if wanted by mail.

H. Q. HEMP SEED.—Hemp is the large, round, dark-grey seeds found in all cheap mixtures. It is very heating and fattening and should be fed sparingly and not to singers at all.

Lb. 20c; 10 lbs. \$1.25

H. Q. CANARY.—There is a big difference in the stock and quality of canary. Buy our re-cleaned Sicily seed. Quantity price on request.

Lb., 20c; 10 lbs., \$1.50

H. Q. MILLET.—Small golden soft shell, fresh and re-cleaned.

Lb. 15c; 10lbs. \$1.25

H. Q. SWEET BIRD RAPE.—Easily detected by the sweet taste. Beware of cheap rape.

Lb. 20c; 10 lbs. \$1.60

H. Q. CRYSTAL AGATE BIRD GRAVEL.—A new and ideal product, becoming very popular with bird fanciers.

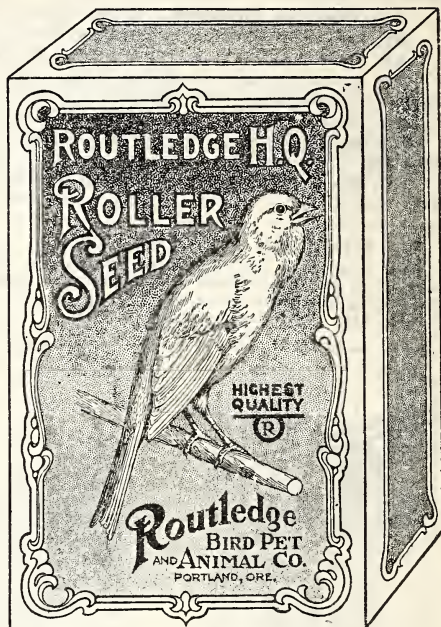
2-lb. carton 15c

H. Q. SILVER BIRD SAND.—White and clean; put up in 2-lb. cartons, 15c; in bulk, 5 lbs. 30c; 10 lbs. 50c.

RED BIRD GRAVEL.—Preferred by some of our customers.

2-lb. box 20c

NOTE.—Add postage to above foods when ordering by mail.



Design Copyrighted

This illustrates our new H. Q. Bird Seed Carton—Highest quality seed obtainable. (Green, yellow and red box, yellow bird.) Take no other. Ask your dealer to stock it and send us his name and we will do the same.

MAW (Poppy).—Bird tonic40c lb.

LETTUCE SEED.—For birds35c lb.

CUTTLE BONE.—High grade, large size. Each 10c, or 2 for 15c, postpaid; with patent fasteners or holders, 10c and 15c, postpaid.

H. Q. BIRD SWEETHEART.—A combination cake of seeds, herbs and roots that nature intended birds should have. Food and medicine combined. A song tonic and conditioner. Comes in heart-shaped tins, made to fasten on the cage wires. Per tin, postpaid, 20c, or 2 for 35c; store prices, 15c, 2 for 25c.

Highest Quality Foods and Remedies you should Have on Hand

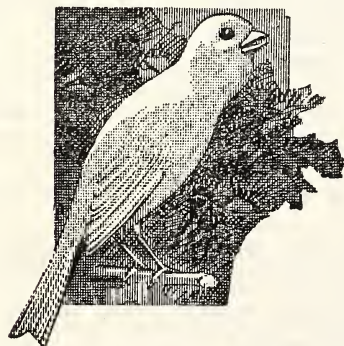
Canary Bird Special—Save 40c

- | | |
|----------------------------------|-----|
| 2 Tins Bird Sweetheart... | 25c |
| 1 pkg. H. Q. Health Food... | 25c |
| 1 pkg. H. Q. Song Restorer | 25c |
| 1 bottle H. Q. Cold Remedy | 25c |
| 1 Tonic or Medicine cup... | 15c |
| 1 H. Q. Cage Wash..... | 25c |
| Disinfectant & Mite Killer | |

\$1.40 Value

Your Birds Need it

Special \$1.00 Postpaid
Add 1 lb. H. Q. Roller
Seed for 25c extra, postpaid.



Read our book, “Care, Feeding and Breeding of Canaries”; worth a dollar; price 30c, postpaid. See page 103.

NOTE.—In moulting season you can take MOULTING FOOD in place of our Health Food.

Routledge H. Q. Bird Remedies

These H. Q. Remedies are our own preparations and fully guaranteed. Our own experts and our Veterinarian know pet stock, their ailments and best cures. Consultation free. Complete instruction in each carton. NOTE—Our Bird Tonics and Remedies are 5c less at our store.



ROUTLEDGE SONG RESTORER.—For loss of voice and song. A wonderful preparation in dry granulated form. Used in conjunction with our liquid Song Tonic, alternating daily, invariably restores the song quickly. Postpaid 30c.

ROUTLEDGE HEALTH FOOD.—Feed in "tonic cup" twice a week. Especially compounded to combat intestinal ailments of birds. A trouble not generally understood but is the cause of many birds dying yearly. Postpaid 30c.

ROUTLEDGE GENERAL TONIC.—Made to meet a demand for helping birds in a rundown condition where there is no definite ailment existing but still there is need for a tonic. Gives quick results. Put in water cup. Postpaid 30c.

ROUTLEDGE MOULTING FOOD.—Supplies the necessary elements of food value required by a bird at the beginning and during moulting time. Postpaid 30c.

ROUTLEDGE SONG TONIC.—For loss of voice and diseases of the respiratory organs. Put in water cup. Postpaid 30c.

ROUTLEDGE COLD REMEDY.—Birds suffering from colds, asthma and kindred troubles should have immediate attention. Keep the remedy on hand. Postpaid 30c.

ROUTLEDGE BIRD LAXATIVE.—Composed of vegetable oils, effective but harmless. Postpaid 30c.

ROUTLEDGE BIRD OINTMENT.—To keep down the unusual dryness of the epidermis. Don't neglect the bird's feet and legs. Use this ointment for scales, roughness and leg mites. Postpaid 30c.

ROUTLEDGE DIARRHOEA REMEDY.—The best that money and skill can produce, without a peer for quick and healthful results. Use our Bird Laxative first. Postpaid 30c.

NOTE.—To be sure of our "H. Q." (Highest Quality) stocks see that the package is marked Routledge Seed & Floral Co. or Routledge Bird, Pet & Animal Co.

ROUTLEDGE BIRD LINIMENT.—One of the greatest remedies for diseases of the feet and legs of birds, also for skin troubles. Postpaid 25c.

A "Tonic" or "Medicine Cup" (see page 101) is the ideal way to feed these special foods. Only 20c, postpaid.

H. Q. CAGE WASH (Mite Destroyer).—Table spoonful to a quart of hot water. 25c, postpaid 30c.

H. Q. BIRD LICE DESTROYER.—Put up in a powder blower, all ready to use. 35c, postpaid 40c.

H. Q. BIRD INSECT POWDER.—Fir bird lice, etc. Pkt., 15c; large pkg., 30c, postpaid.

H. Q. DEPLUMING MITE LIQUID.—For loss of neck and head feathers. Postpaid, 30c.

PARROT FOODS, TONICS, Pg. 101

Canary Leg Bands, doz. 30c, postpaid.
Canary Nest Eggs, 10c each; 3 for 25c.

Best Book on Canaries

"CARE, FEEDING AND BREEDING OF CANARIES."—A book of real information regarding Canaries. Also informs you how and what to use to overcome disease and trouble. It is based on many years of experience and study; 48 pages, nicely illustrated and well printed on heavy book paper. WORTH A DOLLAR, but priced at 25c; postpaid 30c.

Spratt's Foods and Remedies

BIRD TONIC.—For prevention of diseases. Small, 20c, postpaid 25c; large, 25c, postpaid 30c.

SPRATT'S COD LIVER OIL NESTLING FOOD.—For young birds. Pkg. 20c; 2 for 35c.

BIRD WASH.—For skin irritation and to prevent feather eating. 25c, postpaid 30c.

CANARYDYNE.—For asthma and wheezing. 25c, postpaid, 30c.

C. L. O. NESTING FOOD.—For young birds, substitute for boiled eggs. 4 oz. pkg. 15c, postpaid 20c; 9 oz. pkg. 25c, postpaid 30c.

MITLENE.—Cage wash for mites. 25c, postpaid 30c.

MOCKING BIRD FOOD.—For soft bill birds. 30c, postpaid 40c.

ORANGE OR RED COLOR FOOD.—Deepens natural color. Feed to young birds and after moulting. 25c, postpaid 30c.

ROLLER CANARY MIXTURE.—Special bird seed. 25c, postpaid 35c.

SONG RESTORER.—Invigorating tonic. 25c, postpaid 30c.

SING SONG.—Appetizer and tonic, comes in patent tin boxes that fasten to cage. Per tin, 15c; 2 for 35c postpaid.

Haller's Canary Bird Remedies

NOTE.—All prices postpaid—5c less if called for at our store.

CANARY BIRD PIE.—A tonic, builder and a treat. Fasten to cage wires. Price 20c—2 for 35c postpaid.

HALLER'S MOULTING FOOD.—Should be fed during the moulting season. Postpaid 30c.

HALLER'S HEALTH FOOD.—Postpaid 30c.

DUTCH SONG RESTORER.—Tonic and regulator for singers out of song and weak. 25c, postpaid 30c.

HONEY ROLL.—A cone-shaped cake combination food and tonic; fastens to cage wire. 15c each; 2 for 25c, or postpaid, 30c.

KAEMPFER'S ASTHMA TABLETS.—Excellent remedy. 25c, postpaid 30c.

KAEMPFER'S BIRDOLENE.—Tonic and change of diet. Pkg. 25c, postpaid 30c.

KAEMPFER'S HIGH BALL.—A food tonic. Hang from top of cage. 15c, 2 for 35c postpaid.

A "Tonic" or "Medicine Cup" (see page 101) is the ideal way to feed these special foods. Only 20c.

CATS—KITTENS—FOODS—SUPPLIES



Most every home has a cat and every cat should have a plaything. Catnip Mice and Catnip Balls are just the thing, make the cats playful, healthy and wide awake—they love the smell of catnip and crave it, a little occasionally to keep in good health is almost necessary.

CATNIP MICE

Made of cloth, same size, shape and color of a real mouse, and stuffed with dried catnip leaves. Kitty will play for hours with this mouse and then should be given a little catnip. Price 15c; postpaid 20c.

SPECIAL.—1 Catnip Ball, 1 Catnip Mouse and 1 pkg. Catnip, postpaid, for 50c.

CATNIP BALLS

These are hollow wooden 1½-inch red balls, filled with catnip. It's great sport for the cat. A wonderful toy for cats. Price 15c; postpaid 20c.

CATNIP LEAVES

Catnip leaves, properly cured and dried. Always keep a package on hand to treat Kitty with. Price 15c; postpaid 20c.

SPRATT'S CAT FOODS AND REMEDIES

Constipation Pills50c; postpaid 55c
Cough Tablets50c; postpaid 55c
Diarrhoea Tablets50c; postpaid 55c
Digestive Tablets50c; postpaid 55c
Plea Powder30c; postpaid 35c
Worm Capsules for Cats.....Postpaid 55c
Worm Capsules for Kittens.....55c Postpaid
Distemper Capsules for CatsPostpaid 75c
Tonic and Condition Tablets for Cats..Postpaid 50c

Spratt's Cat Food.—A complete food for cats. Used at the leading catteries throughout the world. Large pkt. (P. P. 2 lbs.), price 30c. Add postage.

Malted Kitten Food.—Use tablespoonful to pint of hot water; very valuable and inexpensive. Can, 30c; postpaid 40c.

Cat Combs.—\$1.75 to \$2.00 each.

CLAYTON'S CAT REMEDIES.—See Page 141.

PERSIAN ANGORA CATS OR KITTENS

These long, fluffy, silky-haired pets are great favorites with the ladies. All popular colors.

RANGE OF PRICES.—Young Kittens: Males, \$7.50 to \$10.00; Females, \$5.00 to \$7.50. Write.

KIT-E-RATION.—A complete cooked ration. 1 lb. 15c, 7 for \$1.00; postage extra.

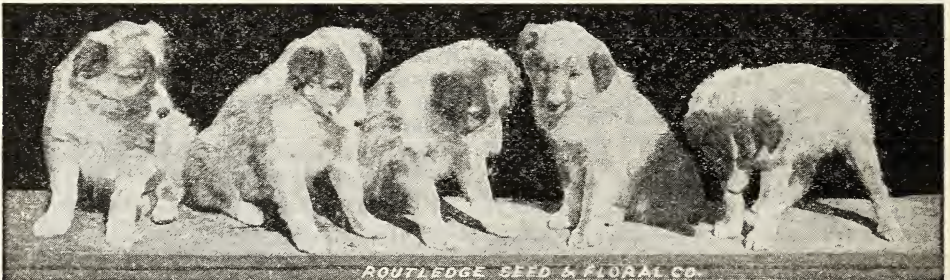
BOOKS ON CATS

Cat Culture (Spratt's)Postpaid 15c
Domestic and Fancy Cats (Jennings)85c
Covers all subjects85c
Pedigree Blanks for Cats.—
Two colors; bond paper. 10c each; 3 for 25c; doz., 75c.

PUPPIES AND DOGS

Buy your child a puppy and let them grow up together. Aside from the protection and companionship educational experts advise that all children are better by having pets.

Our pet stock, hutches and kennels are inspected regularly by Dr. M. Howes, veterinarian, and member of the Oregon Humane Society.



A healthy, bright lot of Scotch Collie pups ready for new homes. Don't you want one?

Most buyers prefer a pup so it can be raised and trained to suit, but often someone wants a full-grown dog. We sell both.

PUPPIES ON DISPLAY AT OUR WEST SIDE STORE ONLY.

PRICES OF PUPPIES.—Pure-bred Stock (without pedigree papers): Fox Terriers, Collie Shep-

herds, Scotch Collies.—Females, \$7.50; males, \$10.00.
Airedales, Cocker Spaniels.—Females, \$10.00 to \$15.00; males, \$15.00 to \$25.00. Toy, Boston and English Bulls.—Females, \$15.00 to \$25.00; males, \$20.00 to \$35.00. Police Dogs.—Females, \$15.00 to \$25.00; males, \$25.00 to \$50.00. Mixed Breeds, Females, \$5.00; males, \$7.50.

Write for Prices on other Breeds

FOR OUR H. Q. DOG AND PUPPY REMEDIES, SEE NEXT PAGE.

ROUTLEDGE "H. Q." DOG AND PUPPY REMEDIES

H. Q. Mange Remedy

Our Mange Remedy consists of a Germicidal Ointment, a Neutralizing Healing Ointment and a Sanitary Wash.

The treatment consists of from three to six applications of the germicidal ointment followed by the application of the neutralizing healing ointment. It is quite essential to disinfect the quarters of the dog in severe cases, to bathe the animal with a disinfecting wash before treating. For this purpose there is included a bottle of our H. Q. Dog Wash.

Price, complete with full directions, \$1.00, or postpaid \$1.15.

H. Q. Flea Knox Shampoo

FOR DOGS AND PUPPIES

A disinfectant soap emulsion that cleans the skin, destroys dog odors and leaves the fur soft and fluffy.

Our many satisfied customers claim it the only shampoo that will free the dog of the troublesome flea.

PRICE, Small size bottle 40c; large bottle 75c, postpaid.

Sopex

Your dog can be easily kept in show ring condition with Sopex. Thorough cleansing, prompt destruction of fleas and lice, healthful stimulation of the skin and the development of the true natural beauty of the coat are the quick results of a Sopex shampoo.

PRICES, 2 oz. (makes 1 Gal.) 50c; 4 oz. 75c; postage 10c extra.

Dog Collars

We carry in stock the most complete line in Portland. Every kind and every style from 50c to \$5.00—the average price is from \$1.00 to \$1.50

Dog Brushes

NO. 32.—A high grade leather back with hand strap. A good and serviceable brush. Small, 75c; Large, \$1.00.

SLICKER BRUSHES.—Wire teeth set in rubber, wood back and handle. Combs the fleas out and slicks the coat. Price \$1.25 postpaid.

Dog Leads and Chains

All styles equipped with swivel snaps and hand-hold. High grade and well made.

STYLE NO. 24.—Round woven strap leads, 4½ feet long, ¼-in., \$1.00 to \$2.00; ¾-in., \$3.00.

STYLE NO. 26.—Chains, 6 feet long; light, 75c; medium, 85c; heavy, \$1.00.

KENNEL CHAINS.—Swivel snap both ends, \$1.00 to \$1.25.

Miscellaneous Dog Supplies

LEATHER MUZZLES.—75c to \$1.50.

DOG COLLAR BELLS.—25c. Locks, 35c to 75c.

DOG COMBS.—Nickle plated, coarse \$2.00; medium or fine, \$1.65; flea, \$1.85.

DOG COATS or Slip-On.—\$2.75 to \$3.75.

SWEATERS (with legs).—Wool, \$3.25 to \$4.50.

FELT BLANKETS.—Shaped and strapped, \$2.25 to \$4.00.

WILLOW SLEEPING BASKETS, \$2.25 to \$7.00.

WILLOW CARRYING BASKETS, \$4.00 to \$6.00.

H. Q. Iodized Cod Liver Oil

For sick and convalescent animals, old or young. Useful in Rindown condition, Colds, Colter, Lustless Hair, Distemper, following Poison; lack of health and strength, etc.

Prices.—6-oz. bottle 50c; postpaid 60c; 16-oz. \$1.00; 32-oz. \$1.75; gal. \$6.00. Directions on each label.

H. Q. Canine Vegetable Oil

For young or old Dogs or Cats, use according to directions. For constipation, loss of appetite, internal hair balls and after worming.

A high grade vegetable oil that does not, like castor oil, have a bad after effect. Stimulates normal bowel movement.

Price.—3-oz. bottle 25c; postpaid 35c. Directions on label.

H.-Q. Dog Wash

For Toy Dogs and Puppies.—An excellent disinfectant and a germ destroyer. Kills all dog odor and fleas, improves the skin and coat. Use in bath water with H. Q. Dog Soap. 1 tablespoonful to a gallon of water. Dog Wash Price: 3-oz. bottle 25c; postpaid 35c; 6-oz. 40c; postpaid 50c; pint 75c.

H. Q. PUPPY WASH, same prices as above.

H. Q. Medicated Dog Soap

This soap is prepared from the formula of a celebrated physician and combines all healing and purifying ingredients possible in a soap. Its power to fortify and protect the user or animal from contagion is truly wonderful. Will remove dandruff, stimulate hair growth, prevent most skin eruptions, and destroys most germ diseases communicated by contact. Leaves the skin and fur in the best of condition. Price per cake, 25c, postpaid.

H. Q. Special Dog Soap

Made to meet a demand for all kinds of animals or fowls, cats, dogs, chickens, etc. It has the proper ingredients to get results in all general conditions, still be harmless to the animal which it is used on. It is non-poisonous and non-irritating to animals or humans. Price per cake, postpaid, 15c.

Books on Dogs

All About Dogs.—(Henry Vibert).....	\$1.10
Amateur Dog Book.—(Bructte)—Training, care and treatment, 160 pages.....	.60
Amateur Trainer.—(Haberbein)	1.35
Airedale, All About.—(Palmer).....	1.25
Airedale Terrier.—(Buckley)	2.60
Boston Terrier.—.....	2.60
Bulldogs and All About Them.—(Fowler)— ..	3.75
Common Sense Dog Doctor.—(Spratt's).....	.60
Dogs of All Nations.—(Mason).....	1.25
Fox Terriers, The.—(Dalzell)	1.10
Fox Terrier, The Perfect.—(Ashley) .....	.70
Popular Dog Keeping.—(Maxtee)—.....	1.25
The Collie.—(Dalzell)	1.25
The Police Dog.—(Meyer)	1.10
The German Shepherd (Police) Dog.—In word and picture; the only complete work on this breed, by von Stephanitz	7.50
Shepherd Dogs.—Schooling and training.....	.85
Dog, Cat, Rabbit Pedigree Blanks—	10c each; 3 for 25c; doz. 75c

DOG AND CAT SUPPLIES, ETC.

We carry in stock the largest and best assortment of Dog Collars, Chains, Leads, Muzzles, Sweaters, Blankets, Brushes, Combs, etc. Our new display boards in our salesroom, East or West Side Stores, show at a glance all styles, sizes and kinds. If you can call, do so.

"H. Q." DOG AND PUPPY BISCUIT

Only clean, sweet meats and choice cereals are used in the manufacture of H. Q. Biscuit. The proportions are scientifically blended, so as to produce a thoroughly balanced ration rich in protein—containing all the elements necessary to keep the dog in the best physical condition. Biscuits baked daily, always fresh—no mould or bugs.

PRICES—DOG BISCUIT.—Large 3 lb. cartons, 50c; 10 lbs. at 12c lb; 25 to 100 lbs. at 10c lb.

PUPPY BISCUIT.—Same prices as above.

NOTE.—Add postage if wanted by mail.

CANNED DOG FOODS

The modern, sanitary way of feeding—no trouble and no waste. Feed canned meat and Biscuits for health and vitality.

KEN-L-RATION.—The Dog Food Supreme.—Known from Coast to Coast. A wonderful balanced ration of cooked meat, cereals and cod-liver oil, all ready to serve. No cooking, no waste, no mess. Easy to feed and economical to use.

PRICES.—1 lb. can 15c each; 8 for \$1.00. Write for 4 doz. case price.

KIT-E-RATION.—Same price as above. See page 104.

DR. ROSS DOG AND CAT FOOD is a cooked canned meat product ready to feed, containing meats, cereals, vegetables and oils. For dogs, puppies, cats or foxes.

PRICES.—One lb. cans 15c each; 8 for \$1.00, postage extra. Write for 4-doz. case price.

VITAMONT.—The wonder dog and puppy food. A perfectly balanced food composed of wholesome meat and cereals.

PRICES.—1 lb. can 15c; 8 for \$1.00, postage extra.

FISH LOAF.—Especially prepared for dogs and cats. It is a wholesome food, thoroughly sterilized. A fish and vegetable product of merit. Price 15c per can; 8 for \$1.00, postage extra.

ILAK SHAMPOO

FOR DOGS, PUPPIES AND CATS.

If you bathe your dog with ordinary soap or any preparation that cuts the oil, you leave him unprotected with a dry, irritated skin by taking away all the natural oil, which subjects him to colds and skin diseases.

ILAK SHAMPOO removes dirt and germs and odor from your dog's fur and skin and at the same time replaces the natural oil necessary to retain a healthy skin and lustrous coat.

ILAK SHAMPOO.—The fluffy, glossy coat producer and reconditioner, is non-poisonous, non-irritating, absolutely harmless and a preventative against fleas, lice, nits, skin diseases and colds. Perfectly harmless to the eyes and stomach of the smallest puppy or kitten, thoroughly cleanses the skin and coat and brings out its natural life and beauty.

It cannot be used too often, but once every few weeks is sufficient to prevent fleas, lice, nits, colds and skin diseases.

DIRECTIONS.—Simply wet the dog with warm water, apply Ilak Shampoo, massage briskly. Then rub lather off with hands, rinse the dog with warm water, and dry with coarse towel.

PRICES.—6-oz. bottle 50c; 14-oz. \$1.00; 32-oz. \$1.65. Postage extra.

**FEED "H. Q."
WATCH
THEM JUMP**



60-MINUTE WORM REMEDY

A wonder in action, yet perfectly harmless to the dog or pup. There is no danger or bad after effects from this remedy—it is a vegetable compound and produces unfailing results within 2 hours, generally within 30 or 40 minutes.

Prices, postpaid.—Small carton, 6 dozen, 60c; 15 doses, \$1.00; 36 for \$2.00; 75 for \$3.75.

Note.—If the dog is constipated give a "laxative" night before you use any worm remedy.

DR. HOWE'S DOG MEDICINES

These remedies have been used successfully since 1887. They are put up by our own veterinary, Dr. M. Howe, Jr., graduate of Cornell University. He is recognized as the best veterinary in the Northwest. Consultation free—write.

No. 3—For cold and distemper.....	\$1.00
No. 5—Bowel Trouble—Constipation.....	1.00
No. 707—Chronic Skin Diseases.....	1.00
No. 9—Blood Purifier	1.00
Antiseptic Eye Medicine.....	.50
Ear and Canker Remedy.....	.50
Etherized Oil—Sore Throat, Pneumonia, Bronchitis, etc.	1.00
Goiter Remedy	1.00
White Liniment—For sprains, etc.....	1.00
Worm Medicine .....	.50
Mange, Eczema, Ringworm.....	.50
Rickerts Remedy	\$1.00

PULVEX

FOR ALL ANIMALS & BIRDS

Pulvex is a new and remarkable dusting powder for animals and birds. Kills mites. Pulvex is unlike ordinary powders, it actually kills the insects. Pulvex is odorless, clean and entirely non-poisonous.

PRICES.—2 oz. 50c, postpaid 60c; 12 oz. size, \$1.25; postpaid, \$1.35. Descriptive booklet free.

KUR-MANGE

Internationally famous as a dependable cure for many forms of Mange. Kur-Mange is a fine powder to be dissolved in water and applied. It also kills fleas, lice, ticks and mites in a single treatment.

PRICES.—3 oz. (makes 1 gal.) 75c, or 90c postpaid.

DON'T FORGET POSTAGE EXTRA ON ABOVE FOODS AND REMEDIES

Spratt's Dog and Puppy Foods, Remedies, Etc.

Known and used the world over. None better. We have hundreds of customers and now buy in carload lots. Prices subject to market changes. Spratt's descriptive Dog Culture Book and Catalog free.

SPRATT'S DOG FOODS

NOTE.—ADD POSTAGE on all sizes if wanted by parcel post, and allow a little extra for weight of packing.

SPRATT'S DOG CAKES.—A properly balanced meat, grain meal and vegetable compound that will not spoil with age. Known and recommended the world over as a complete and constant food for dogs. Most owners of dogs rely on scraps from the table as "dog feed." This is all right as far as it goes, but to be on the safe side and for vacation trips, etc., always keep a supply of Dog Cakes on hand.

DOG CAKES (whole).—lb. cartons, 40c; out of bulk, 5 lbs. 75c; 10 lbs. \$1.45; 25 lbs. \$3.10; 100 lbs. \$11.75.

SNAX.—New shape biscuit 1 in. thick, 3 inches long; an appetizing meat fibrine cake preferred by all dogs. 2 lb. carton, 35c, postage extra.

KIBBLEDOG CAKES.—Small nut size, out of bulk, 5 lbs. 80c; 10 lbs. \$1.50; 25 lbs. \$3.20; 100 lbs. \$12.00.

COD LIVER OIL CAKES are invaluable for old or delicate dogs or those recovering from sickness. Dogs eat them without coaxing.

Prices.—2-lb. cartons, 45c; out of bulk, 5 lbs. 80c; 10 lbs. \$1.55; 25 lbs. \$3.35; 100 lbs. \$12.75.

FIBO granulated.—Egg yolks added for Puppies or Growing Dogs.—For shy feeders or those recovering from sickness. Small nut size.

Prices.—2-lb. cartons, 45c; out of bulk, 5 lbs., 85c; 10 lbs. \$1.65; 25 lbs. \$3.60; 100 lbs., \$13.75.

SPRATT'S PUPPY FOODS

Postage Extra by Mail.

A perfect and whole food for puppies of all breeds. Puppies should be started on these biscuits when about one month old, and they should be continued until such time as their teeth become sound and strong, usually when they are about six months old.

PUPPY BISCUIT.—2-lb. cartons 45c; out of bulk, 5 lbs. 80c; 10 lbs. \$1.50; 25 lbs. \$3.25; 100 lbs. \$12.25.

BONE MEAL FOR PUPPIES.—The strong frame builder. 3-lb. tin can 50c.

OVAL PUPPY CAKES.—Very popular; ideal size. Cartons 40c; 5 lbs. 80c; 10 lbs. \$1.55; 25 lbs. \$3.35; 100 lbs. \$12.75.

CHARCOAL OVALS.—Same as above with charcoal added; stomach conditioner and gas absorbent. Prices same as above.

PUPPILAC.—A perfect substitute for milk. For weaning and rearing puppies and fox cubs. Full cream to replace or aiding Bitches' milk. 10 oz. can 75c, 21 oz. can \$1.50.

PEPSINATED PUPPY MEAL.—For delicate puppies. 35c and 70c.

PLAIN PUPPY MEAL.—The standard weaning food. Lb. 20c; 2 for 35c; 5 lbs. 75c.



REMEDIES AND MEDICINES

Alternating Cooling Tablets.—For heated blood, etc. 50c; postpaid 55c.

Anti-Asthmatic Tablets.—50c; postpaid 55c.

Anti-Rickets Tablets, 50c; postpaid 55c.

Antiseptic Soap (Black).—For cuts, wounds, ulcers, etc., disinfectant and germicide. Cake 25c, postpaid 30c.

Anti-Vomit Pills, 50c; postpaid 55c.

Chronic Skin Disease Tablets.—50c; postpaid 55c.

Chorea Tablets, 50c; postpaid 55c.

Constipation Tablets, 50c; postpaid 55c.

Consumption Tablets, 50c, postpaid, 60c.

Cough Tablets, 50c; postpaid 55c.

Dry Cleaning Powder, 35c; postpaid 40c.

Digestive Tablets.—For severe cases of indigestion. 50c; postpaid 55c.

Diarrhoea Tablets.—To relieve diarrhoea. Postpaid 50c.

Distemper Tablets.—For toy dogs and puppies. 75c; postpaid 80c.

Flea Soap.—Kills lice and fleas, prevents skin diseases and leaves the coat smooth and glossy. Cake, 30c, postpaid.

Ear Canker Ointment, 75c; postpaid 80c.

Eye Lotion (tablet form), 50c; postpaid 55c.

Eczema Remedy, 50c; postpaid 55c.

Flea Powder, 30c; postpaid 35c.

Hair Stimulant and Restorer, 50c; postpaid 55c.

Jaundice Tablets, cathartic to stimulate flow of bile, 50c, postpaid 55c.

Kidney Tablets, 50c; postpaid 55c.

Liniment for Animals and Humans, 50c; postpaid 55c.

Liver Tablets, 50c; postpaid 55c.

Locurium Ointment.—For wounds, cuts, and bruises. 50c; postpaid 55c.

Nerve Sedative Tablets, 50c, postpaid 55c.

Pneumonia Tablets, 50c; postpaid 55c.

Purgative Tablets.—Perfectly safe and effective. 50c; postpaid 55c.

Rheumatism Tablets, 50c, postpaid 55c.

Tonic and Condition Tablets.—For toy dogs and puppies. 50c; postpaid 55c.

Worm Capsules for Dogs, 50c; postpaid 55c.

Worm Capsules for Puppies.—May be given with perfect safety. 50c; postpaid 55c.

Tape Worm.—Special 50c; postpaid 55c.

Vermifuge Capsules.—For toy dogs and puppies. 50c; postpaid 55c.

Mange Remedy.—Pints 75c; postpaid 85c.

SPRATT'S DOG CULTURE.—New edition, 48 pages, contains valuable information on the care, management, breeding, rearing and feeding. Also tells all about Spratt's Food, Remedies and Supplies.. **FREE UPON REQUEST.**

Q-W DOG REMEDIES

Pure, wholesome remedies, good enough for humans, prepared by a "Canine Specialist" who has owned thousands of dogs and knows what's what when it comes to treatment of dog troubles. Used and recommended by thousands of dog breeders.

Q. W. May Cost More but the Remedies are Worth More.

BLACK TONGUE MIXTURE, Q-W.—For use in prevention and in treatment of black tongue. \$2.00 and \$3.50 sizes; postpaid, \$2.10 and \$3.70.

BREEDING TABLETS, Q-W.—For stimulating sexual powers in dogs, makes males serve vigorously, bring backward bitches in season, induce conception. \$2.00 postpaid.

CONDITION POWDER, Q-W.—Blood purifier, stomach cleanser, digestion corrective, bowel regulator. To help put and keep dogs and cats in condition, and give pep, ginger. \$1.00 and \$3.00 sizes; postpaid, \$1.10 and \$3.25.

CONSTIPATION PILLS, Q-W.—Quick, safe laxative. No evil after effects. Splendid for humans, too. \$1.00 postpaid.

COUGH MIXTURE, Q-W.—For colds, coughs and all bronchial troubles. \$1.00; postpaid, \$1.10.

DIARRHOEA AND DYSENTERY TABLETS, Q-W.—For loose bowels and to help soothe and heal inflamed intestines. \$1.25 postpaid.

DISTEMPEROL, Q-W.—For the treatment of distemper and to help carry animal safely through disease. \$2.00 and \$3.50 sizes; postpaid, \$2.10 and \$3.70.

EAR CANKER LOTION, Q-W.—For internal sores, abscesses, cankers, etc., of the ear, causing dog to hold head on one side, scratch ear, etc. \$1.25; postpaid, \$1.35.

EYE SALVE, Q-W.—For weak, running, matted, inflamed eyes and lids and for film or abscess on eye and to help strengthen weak eyesight. \$1.00 postpaid.

FLEA OIL AND COAT GROWER, Q-W.—For use in killing vermin on dogs and other domestic animals without wetting and in keeping off flies, fleas, lice, etc. Instantly applied. Simply rub into coat. Pt., \$1.00; postpaid, \$1.15; Qt., \$1.75; postpaid, \$1.95.

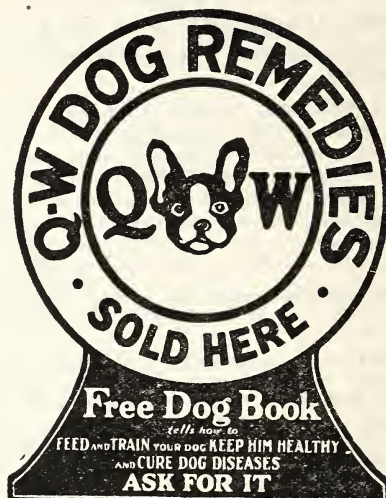
FLEA POWDER, Q-W.—For dry-killing fleas on dogs, especially suited to small dogs and for use in winter. \$1.00 per box; postpaid, \$1.10.

FIT AND SEDATIVE TABLETS, Q-W.—For fits, convulsions and nervous dogs and to help soothe nerves, kill pain, promote sleep. \$1.25 postpaid.

HEALING SALVE, Q-W.—The pride of the Q-W; a wonderful salve for sores, cuts, tears, ulcers, cankers, rashes, blisters, sore footpads, etc. Fine for hunting dogs that get torn up. Good for other animals, too, and for humans. \$1.00 and \$3.00 sizes; postpaid, \$1.10 and \$3.20.

LINIMENT, Q-W.—For sprains, bruises, rheumatic or muscular cramps or pains, kennel stiffness, and partial paralysis. \$1.25; postpaid, \$1.35.

LIQUID SULPHUR COMPOUND, Q-W.—For bathing dogs with itch, giving sulphur baths, cooling blood in eczema and giving dogs sulphur in their drinking water. Fine for sulphur baths for humans, too. \$1.00 and \$1.75 sizes; postpaid, \$1.10 and \$1.95.



MANGE AND FLEA SOAP, Q-W.—A wonderful sulpho-cresol cleanser, skin healer, vermin soap, for dogs, cats and other animals. \$1.00 postpaid.

MANGE LOTION, Q-W.—For treating mange, eczema and other skin eruptions on dogs and other animals and in assisting growth of rich hair on man or beast. \$1.00; postpaid, \$1.10; qt., \$3.25; postpaid, \$3.50.

PHOSPHATED COD LIVER OIL COMPOUND WITH LIME, Q-W.—Quickest food builder for wasting diseases, distemper, rundown condition, rickets, etc. Marvelous bone grower for pups. Indispensable in kennel. Pt., \$1.25; postpaid, \$1.35; Qt., \$2.00; postpaid, \$2.25; Gal., \$7.00, by express.

RHEUMATISM TABLETS, Q-W.—For rheumatism, stiff joints, partial paralysis and gout. \$1.00 postpaid.

TAPE WORM MIXTURE, Q-W.—For eradicating tape worm's head (the important part) as well as segments. \$1.00 and \$2.50 sizes; postpaid, \$1.10 and \$2.70.

TONIC AND RED BLOOD BUILDER, Q-W.—Splendid pick-up tonic for anemic, rundown animals or humans. Valuable in distemper. \$1.00; postpaid, \$1.10.

VERMINOL, Q-W.—Powerful disinfectant, germ and vermin killer, dog dip. For use in killing fleas, lice, mites. Pt., \$1.25; postpaid, \$1.40; qt., \$2.00; postpaid, \$2.25.

WORM MIXTURE, Q-W.—For use in expelling intestinal parasites from dogs, cats, foxes, rabbits, etc, including round, whip, hook and seat worms. \$1.00 and \$2.50 sizes; postpaid, \$1.10 and \$2.70.

EVERY OWNER of a dog should have HENRY VIBERT'S treatise on CARE, FEEDING and TRAINING OF DOGS OF ALL BREEDS. 107 Pages. Price, \$1.10 Postpaid.

Clayton's Dog Remedies

Widely advertised and known from Coast to Coast. Send for Clayton's Free Book, "A Treatise on the Dog," full of valuable information for the dog owner.

BY MAIL.—Add 5c to the 25c sizes and 7c to the 60c sizes to cover packing and postage.

BLOOD PURIFYING AND COOLING PILLS.—Especially useful in eczema and all skin diseases. 60c.

CANKER LOTION (Liquid)—(Tablets).—For external and internal canker, deafness, etc. 60c.

CEOLINE DOG WASH AND DISINFECTANT.—For fleas; for washing your dog. To disinfect your kennel. 40c.

CONDITION PILLS WITH PEPSIN.—A very reliable remedy in all rundown conditions of the system, especially valuable in distemper. 60c.

COUGH REMEDY.—For coughs and colds from whatever cause. 60c.

CEOLINE SOAP.—25c.

CHOREA TABLETS.—60c.

DIARRHOEA REMEDY (Liquid or tablets).—60c.

DOG SOAP.—25c

DISTEMPERINE (Liquid)—(Tablets).—For distemper. 60c.

DIGESTIVE TABLETS.—For all forms of indigestion. 60c.

EYE LOTION (Liquid)—(Tablets).—For all diseased condition of the eye. 60c.

FIT REMEDY (Liquid)—(Tablets).—For all kinds of fits or convulsions, epilepsy, etc. 60c.

GOITRE REMEDY.—To relieve enlarged glands of the neck, goitre. \$1.00.

HAIR TONIC.—For the hair. 60c.

KILFLEA POWDER.—For fleas. 25c.

KILFLEA POWDER.—For dogs and cats. 35c.

LAXATIVE PILLS.—Act directly on the liver and secretions and keep the bowels in good condition. 60c.

MANGE REMEDY.—For skin diseases. 60c.

PUPPY TONIC.—To strengthen weak puppies, relieve them of colic, prevent and stop bloating and formation of gas in the stomach and bowels. 60c.

PUPPY WORM BULLETS.—Little red. 60c.

RHEUMATISM TABLETS.—60c.

SULPHUR TABLETS.—60c.

SHAMPOO.—For dogs. 25c.

SKIN LOTION.—Colorless. 60c.

TAPE WORM EXPELLER.—Is especially prepared for tape worm. 60c.

VERMIFUGE (Liquid or soft capsules).—For puppies after they are 10 days old and dogs of all ages and breeds. 60c.

WORM PILLS.—Composed of the best remedies known for expulsion of worms. 60c.

Clayton's Cat Remedies

These Remedies Are Being Used by the Leading Cat Fanciers Everywhere.

Clayton's 32-Page Treatise on the Cat—Free.

By Parcel Post, add 7c to the price to cover packing and postage.

CAT BLOOD PURIFYING AND COOLING TABLETS.—For all blood diseases. 60c.

CAT CANKER LOTION TABLETS.—For all diseases of the ear. 60c.

CAT COUGH REMEDY.—For coughs. 60c.

CAT DIARRHOEA TABLETS.—60c.

CAT DIGESTIVE TABLETS.—For all stomach disorders, for vomiting, sweetens the stomach. 60c.

CAT DISTEMPERINE TABLETS.—60c.

CAT EYE LOTION TABLETS.—60c.

CAT FIT TABLETS.—For fits. 60c.

CAT LAXATIVE TABLETS.—65c.

CAT MANGE REMEDY.—60c.

CAT MOUTH WASH.—For all ulcerated conditions of the mouth. 60c.

CAT TAPE WORM EXPELLER.—60c.

CAT TONIC CATNIP CONDITION TABLETS.—For all run down conditions. 60c.

CAT VERMIFUGE (Liquid).—For very young kittens; expels worms. 60c.

CAT WASH AND DISINFECTANT.—Kills fleas, disinfects. 25c.

CAT WORM TABLETS.—60c.

KILFLEA POWDER.—Dogs or Cats, 35c.

Sargent's Famous Dog Medicines

BY PARCEL POST.—Add 5c to 25c articles and 7c to 60c sizes for packing and postage.

Arsenic and Iron Pills.—A blood purifier. 60c.

Canker Wash.—For internal and external ear canker. 60c.

Carbolic Tar Soap.—25c.

Condition Pills.—60c.

Constipation Capsules.—60c.

Cough Medicine.—60c.

Diarrhoea Medicine.—60c.

Distemper Medicine.—\$1.20.

Dog Rub.—A splendid liniment. 60c.

Eye Wash.—60c.

FREE ON REQUEST.—Sargent's 46-page illustrated Dog Book, full of interesting and valuable information. Don't fail to ask for it.

Mange Medicine.—65c.

Pepsin Tablets.—60c.

Rheumatic Pills.—60c.

Running, Marking and Fit Remedy.—\$1.75.

Skip-Flea Powder.—For dogs or cats. 25c.

Skip-Flea Soap.—Kills fleas and lice. 25c.

Sure Shot Capsules.—For worms. 60c.

Sure Shot Liquid.—For worms. 60c.

Tape Worm Medicine.—60c.

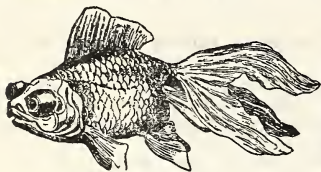
Well Mouth.—For sore mouth, black tongue, 60c.

PEDIGREE BLANKS

For Cats, Dogs, Rabbits.—We offer breeders what we believe to be the prettiest and most up-to-date, properly constructed pedigree blanks. These are printed in two colors and beautifully illustrated. Prices.—For cats or Dogs or Rabbits, state which, 10c each; 3 for 25c; doz. 75c.

GOLDFISH, GLOBES, FOOD, ETC.

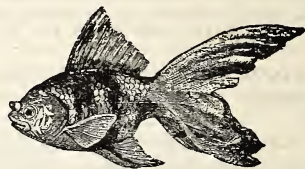
We are the largest retail and wholesale dealers in Fancy Gold Fish in the Northwest, often having a thousand or more on display in our large aquarium at our stores.



Chinese Telescope



American Gold Fish



Japanese Fan-Tail

CARE OF GOLD FISH.—Very simple and little trouble. The water in the aquaria must be changed from one to six times a week, depending on the size of the globe, number of fish and the temperature of the room. When fish come to surface and gasp for air they should be given fresh water. Keep the aquariums out of hot sunlight and in a cool place.

NOTE.—ALL SHIPMENTS (outside of the city) must go by express. A charge of 25c is made to cover cost of Shipping Bucket, holding from two to eight fish. Gold Fish can be shipped safely over-land hundreds of miles. **THEY CANNOT BE SENT BY MAIL.**

Price List of Fish

AMERICAN GOLD FISH.—Very hardy and lively. Each, very small, 25c; small, 35c; medium, 50c; medium large, 60c; large, 8 to 4 inches, \$1.75; extra large breeders, \$2.00 to \$3.00; fancy tri-colored, small to medium, 50c to \$1.50 and up.

JAPANESE GOLD FISH—FAN-TAILS.—These have spreading tails of a delicate lace-like appearance, very showy and attractive. Price, small, 35c; medium, 50c; large, 75c to \$1.00 and up to \$3.00. Tri-colored, golden-red, pearly-white, and black, showing two or all three colors, 75c to \$1.50 each.

COMET.—Similar to the American, but the tail is very long, graceful and delicate. Very active. Price each, 50c, 60c, 75c, \$1.00 and \$1.50.

CHINESE TELESCOPE.—Curious and attractive on account of the large elongated eyes, having the appearance of a telescope. Flowing double tails. Very rare. Price each, 75c to \$1.00.

AQUARIA PLANT OR FISH MOSS

This water plant improves the appearance of the aquaria or globe and helps purify the water, also keeps the water fresh longer. Price per bunch, 25c, postpaid.

Aquarium Scavengers

They consume the decaying matter and help keep the aquariums and water clear and clean.

TADPOLES.—2 to 3 inches, 15c.

HARD SHELL ROUND SNAILS.—15c and 25c.

BABY TURTLES.—About 2 inches across, in season June to December. Price, 50c or postpaid 60c.

BOOKS ON FISH, ETC.

BOOK.—"The Aquaria and Care of Fish"; paper cover, 35c, postpaid.

THE MODERN ACQUARIUM.—A new book by Wm. J. Innes, 62 pages. Nicely illustrated and up to date. Price \$1.10, postpaid.

WATER GARDENS AND GOLD FISH.—112 pages, cloth cover. Covers all subjects. Price \$1.65.

GOLD FISH FOODS, ETC.

Prices, postpaid, 5c less at our store.

FEEDING.—The only safe diet is our prepared Fish Foods, fed daily and only what they will eat up quickly. Don't overfeed.

H. Q. NATURAL FISH FOOD.—Our own make. A combination of foods properly blended to assure the healthy condition of the fish. It is rich in body-building elements, which must be supplied to the fish. (See cut.) Per box, 20c, postpaid.

GROUND SHRIMP.—Prepared to keep; excellent food for fish and turtles. Price, 30c.

ANT EGGS.—For fish and birds. 30c.

ZEKE.—Dried tropical flies, for fish and birds. Pkg., 25c.

RICE WAFER OR FLAKE.—This gets buggy and we have quit stocking it. H. Q. Natural Food is better.

TU JOE FISH FUNGUS REMEDY.—Postpaid, 35c

TU JOE FISH TONIC.—Postpaid, 40c.

SPRATT'S AQUARIUM FISH FOOD.—20c.

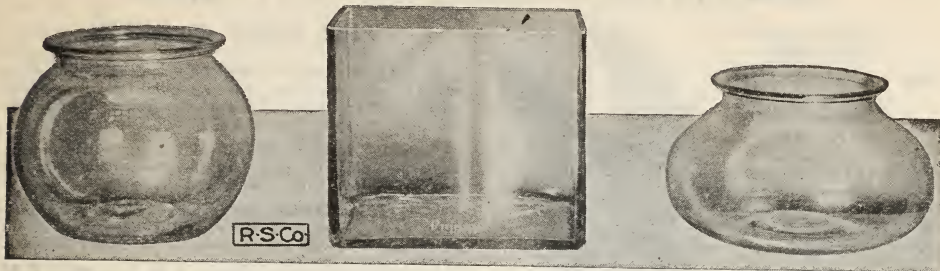
FISH DIP NETS.—Long handles. Small, 25c; medium, 50c; large, 6-inch, 75c.

FUNGERINE.—Curative for the white fungus on aquarium fish. Price 40c bottle, postpaid.



WHEN? We have the largest supply of Gold Fish on hand during the FALL, WINTER and EARLY SPRING. It is not safe to ship fish during the hot summer months.

Fish Globes—Aquariums—Castles



Round Fish Globe.

Square Aquarium.

Squat Globe.

FISH GLOBES—AQUARIUMS

The globe and squat style can be set on the table or sideboard, or suspended by brass chains; the most popular. We also have ornamental wrought iron folding stands for globes at 75c to \$1.25.

Cannot be Mailed.

Note.—Packing charge 10c per gal. extra.

ROUND GLOBES.—Clear, white, heavy glass, popular sellers. Each, 1 qt., 35c; ½-gal., 50c; 1 gal. 85c; 2 gal. \$1.50; 3 gal. \$2.25; 5 gal., \$4.00.

SQUAT GLOBES.—A new, popular style, wider and flatter than above; not so easy to tip over. Each, ½ gal., 50c; 1 gal., 85c; 2 gal., \$1.50; 3 gal., \$2.25.

DRUM STYLE.—Shaped like a drum on edge, with opening at top. Prices: ½ gal. 60c; 1 gal., \$1.00; 2 gal., \$1.75. Same style in green glass, 75c, \$1.25 and \$2.00.

SQUARE AQUARIUMS—ALL GLASS

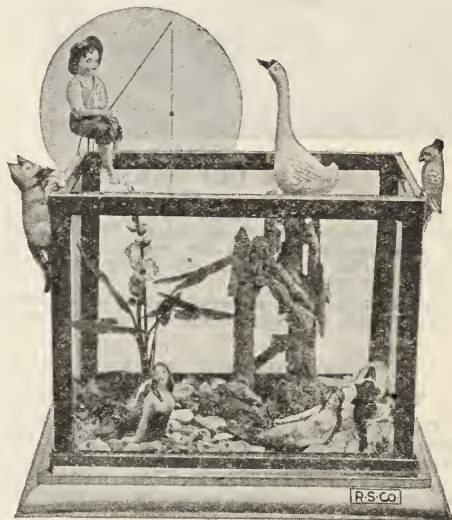
The latest thing in the square or oblong style. The old styles with the metal corners (as shown in illustration), unless handled with the most careful care, would invariably leak and cause much trouble.

The new, all glass, are made by special process, are of heavy polished glass, smooth edges and corners, and when filled with water are "clear as a bell."

	Each
NO. 1.—5½x8x7¼, 1 gal.	\$4.00
NO. 2.—6½x9½x8¾, 2 gals.	\$5.00
NO. 3.—7¾x11½x9½, 3½ gals.	\$7.50
NO. 4.—9½x14x10½, 5¾ gals.	\$10.50
NO. 5.—11x16¼x11¼, 8½ gals.	\$16.00

AQUARIUM STANDS AND GLOBES

We have in stock fancy 4-foot wrought iron stands with large globes, range in price from \$3.50 to \$20.00 each.



AQUARIUM-GLOBE ORNAMENTS

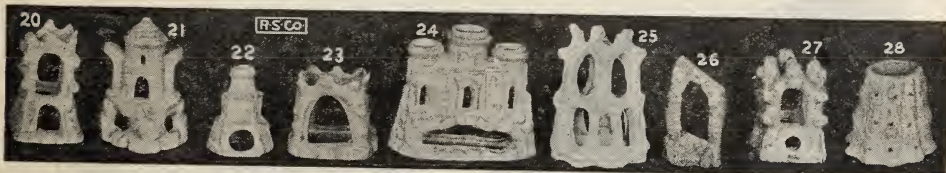
We have a large assortment of various kinds and list the most popular sellers. Prices postpaid:

MERMAIDS.—75c to \$1.00 each; **FISHING BOY.**—Cupid, Darkey or White Boy, all complete with rod and fastener, each, \$1.25; **ORIENTAL BALANCING BIRDS.**—20c, 6 for \$1.00; **HAPPY JOE.**—Funny Boy (4 in.), 85c; **DUCKS,** 20c; **GLASS BALLS,** 20c; **SEA SHELLS,** 50c lb.; **PEARL CHIPS,** 35c lb.; **CAT** with fish, 35c and 50c.

AQUARIUM CASTLES

Made out of special prepared white clay or coral, artistic in shape and they add much to the appearance of the Aquaria. (See cut below.)

NO. 20, 4 inches high, 50c; NO. 21, 4½ inches, 65c; NO. 22, 3 inches, 35c; NO. 23, 3 inches 40c; NO. 24, 5 inches, \$1.00; NO. 25, 5 inches, 65c; NO. 26, 4 inches, coral 35c; 6 to 8 inches, coral \$1.00 to \$1.25; NO. 27, 3½ inches, 35c; NO. 28, pot style to grow water plants in, 35c; We have many other styles and in larger sizes, in price from \$1.00 to \$3.50 each, but the above are the most popular sizes.



An imported line of new Aquarium Castles, light in weight, perfect in style and workmanship.

Rabbits, Rabbit Foods, Remedies, Supplies

TATTOO EAR MARKERS

Easy to Use—Well Made

4 Styles—75c, \$1.00,
\$1.25 and \$2.50

Ink. 25c Extra



LESLIE PET-LICKS

Rabbits, Caviae and Pigeons need salt and it should be before them at all times. Pet-Licks are of high quality salt and the correct percent of sulphur. Nail or wire up out of the litter, but within easy reach.

Prices: 2 for 15c; screw-top carton of 10 cakes (wgt. 2 lbs.), 50c; add postage if wanted by mail.

GOOD RABBIT BOOKS

THE BEST AND MOST UP TO DATE

THE RABBIT BOOK.—By Washburn; 12 chapters, 83 illustrations, 195 pages. Latest and best rabbit book to date. \$3.50 postpaid.

CARE AND MANAGEMENT OF RABBITS.—By Sherlock. Complete guide, 25 chapters, 253 pages. \$1.50.

RABBIT CULTURE AND STANDARD.—By Roth, Cornman and Judge Deardorff. Paper cover, illustrated, 128 pages. 65c.

RABBIT AND CAVY FEEDERS

MOE'S RACK.—Use this sanitary feeder. Put hay, vegetables or green feed in the top and grain in the bottom. 12 in. high, 9 in. wide. Wgt. 2½ lbs. 75c, Special price 60c. See illustration page 98.

Note: This is also an excellent feeder for poultry. See page 122

PEDIGREE RABBIT BLANKS.—Large size on bond paper. 10c each, 75c doz.

THE BEST RABBITS

FLEMISH GIANT—BELGIAN.—Very popular on account of their large size and quick growth, which makes them valuable for market. Color, light squirrel grey to black.

NEW ZEALAND REDS.—A hardy, sturdy strain, very popular and much in demand; meat fine in quality and flavor. Color, red.

WHITE ENGLISH.—Very popular pets with children as their white coats and pink eyes make them so attractive. Always in demand as Easter Rabbits.

RABBIT PRICES: Young, 2 to 3 months, \$2.50 each; \$4.50 pair. Breeding age, 6 mo. or over, \$5.00 each; \$8.00 pair. Does bred, \$2.00 extra.

RABBIT REMEDIES

All tried and tested, full directions on each package. Prices postpaid:

Cold Remedy—Small, 60c; large	\$1.10
Ear Canker—Sore ears .....	.60
Slobber Remedy—Sure cure .....	.60
Eye Remedy .....	.60
Sore Hock .....	.60
Vent Ointment .....	.60
Diarrhoea Remedy .....	.75
Tonic and Regulator—16-oz. ....	.65
Klo-Fen—For colds and nasal disorders, 4-oz. bottle, 75c; pint, \$2.00; syringe, extra.....	.50
Best cure known.	

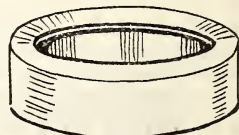
B-K.—A powerful Antiseptic, Deodorant, Germicide; contains no poison, clean and colorless, leaves no stain. Destroys foul odors and keeps down disease. Use a tablespoon full or more to a gal. of water. Full directions with each container. Prices: 4 oz. bottle 35c; 10 oz. 60c; qt. \$1.25. Add postage if wanted by mail.

RABBIT AND CAVY DISHES

No. 2.—Earthenware, heavily glazed; the incurving top rim prevents the nosing out of feed; water can not spill out

Small size weight 2 lbs.; large, 3 lbs.

Prices: 6-in., 15c ea.; \$1.50 doz.; 8-in., 20c ea., doz. \$2.25.
Not mailable.



2

NOTE.—PACKING FOR SHIPMENT 50c DOZ. EXTRA.

CAVIES—GUINEA PIGS

Bright, active and harmless pets. They are in much demand and money can be made raising them. They come in combination colors of brown, white, yellow, black and tan; generally spotted and prettily marked. Solid colors are not always obtainable and are higher in price.



English Cavy (Guinea Pig)

ENGLISH.—Smooth, short hair; hardy and healthy. Young females, \$1.00; young males, 75c and \$1.00; old females, \$1.50; males, \$1.00 and \$1.25. A select breeding pair, \$2.50.

BOOKS ON CAVIES—GUINEA PIGS

RAISING AND CARE OF GUINEA PIGS.—Full of valuable information; nicely illustrated (by A. C. Smith). Price 60c, postpaid.

CAVIES FOR PLEASURE AND PROFIT.—An excellent book complete in every way; well worth the price (by Deicke) Price, postpaid, \$1.60.

REFERENCE TABLES

Quantity of Seeds to produce a given number of plants or to sow an acre

Vegetable Seeds

	Per Acre		Per Acre
Asparagus—1 oz. to 400 plants.....	4 lbs.	Leek—1 oz. to 200 ft. drill.....	3 lbs.
Beans, Dwarf—1 lb. to 125 ft. drill.....	40 lbs.	Lettuce—1 oz. to 200 ft. drill.....	3 lbs.
Pole—1 lb. to 150 ft. drill.....	35 lbs.	Melon, Musk—1 oz. to 100 hills.....	2 lbs.
Pole—1 lb. to 200 hill.....	25 lbs.	Water—1 oz. to 25 hills.....	2 lbs.
Field—1 lb. to 200 ft. drill.....	35 to 45 lbs.	Okra—1 oz. to 100 ft. drill.....	5 lbs.
Lima—1 lb. to 75 hills.....	35 lbs.	Onion Seed—1 oz. to 150 ft. drill.....	3 lbs.
Beet, Table—1 oz. to 60 ft. drill.....	6 lbs.	For Sets.....	50 lbs.
Mangel—1 oz. to 75 ft. drill.....	5 lbs.	Onion Sets—1 lb. to 35 ft. drill.....	200 lbs.
Broccoli—1 oz. to 3,000 plants.....	3 ozs.	Parsnips—1 oz. to 200 ft. drill.....	3 lbs.
Brussels Sprouts—1 oz. to 3,000 P.....	3 ozs.	Parsley—1 oz. to 350 ft. drill.....	2 lbs.
Cabbage—1 oz. to 3,000 plants.....	4 ozs.	Peas, Dwarf—1 lb. to 125 ft. drill.....	75 lbs.
Carrot—1 oz. to 150 ft. drill.....	2½ lbs.	Tall—1 lb. to 150 ft. drill.....	60 lbs.
Cauliflower—1 oz. to 4,000 plants.....	3 ozs.	Pepper—1 oz. to 2,000 plants.....	4 ozs.
Celery—1 oz. to 5,000 plants.....	4 ozs.	Potatoes—(15 lbs. to 100-ft. row).....	800 to 1000 lbs.
Chicory—1 oz. to 100 ft. drill.....	4 lbs.	Pumpkin—1 oz. to 25 hills.....	3 to 4 lbs.
Corn, Sweet—1 lb. to 150 ft. drill.....	15 lbs.	Radish—1 oz. to 100 ft. drill.....	10 lbs.
Sweet—1 lb. to 160 hills.....	12 lbs.	Rutabaga—1 oz. to 250 ft. drill.....	1 to 2 lbs.
Corn Salad—1 oz. to 50 ft. drill.....	5 lbs.	Salsify—1 oz. to 100 ft. drill.....	8 lbs.
Cucumber—1 oz. to 100 hills.....	2 lbs.	Spinach—1 oz. to 100 ft. drill.....	8 lbs.
Endive—1 oz. to 300 ft. drill.....	2 lbs.	Squash, Summer—1 oz. to 30 hills.....	3 lbs.
Horseradish Roots.....	10 to 15 M	Winter—1 oz. to 25 hills.....	3 lbs.
Kale, Table—1 oz. to 3,000 plants.....	1 lb.	Tomatoes—1 oz. to 3,000 plants.....	2 to 3 ozs.
Stock—1 oz. to 300 ft. drill.....	1 to 2 lbs.	Tobacco—1 oz. to 4,000 plants.....	
Kohl-Rabi—1 oz. to 300 ft. drill.....	2 lbs.	Turnips—1 oz. to 250 ft. drill.....	1 to 2 lbs.

Field, Farm, Grass and Clover Seeds

	Quantity Per Acre		Quantity Per Acre
Alfalfa.....	12 to 15 lbs.	Rye Grass—for pasture.....	20 to 30 lbs.
Artichokes.....	400 to 600 lbs.	Rye Grass—for Lawn.....	100 lbs.
Barley—(drills 75 lbs.).....	broadcast 100 lbs.	Sudan—drills.....	3 to 5 lbs.
Buckwheat—(drills 35 lbs.).....	broadcast 50 lbs.	Broadcast.....	16 to 20 lbs.
Cheat.....	75 to 100 lbs.	Kaffir Corn—drills.....	6 to 10 lbs.
Clover—Alsike and White.....	6 to 8 lbs.	Millet.....	20 to 30 lbs.
White for lawn.....	1 lb. to 20 ft. square	Oats—for Seed.....	75 to 100 lbs.
Crimson.....	15 to 20 lbs.	For Hay.....	100 lbs.
Red.....	10 to 12 lbs.	Potatoes—(60 lbs. per bushel).....	15 to 18 bu.
Sweet.....	15 to 20 lbs.	Peas, Field—100 lbs. or 80 lbs. with 35 lbs. Oats	
Corn, Field—Hills.....	10 to 12 lbs.	Rape—(drills 3 lbs.).....	broadcast 5 lbs.
For Fodder, drills.....	50 lbs.	Rye—for Grain.....	60 to 75 lbs.
Flax.....	35 to 45 lbs.	For turning under.....	100 lbs.
Grass, Kentucky Blue—Pasture.....	20 to 30 lbs.	Speltz or Emmer.....	80 lbs.
Kentucky Blue—for Lawns.....	1 lb. to 15 ft. sq.	Sugar Cane.....	10 to 12 lbs.
Mixed Lawn.....	1 lb. to 15 ft. sq.	Sunflower.....	5 to 7 lbs.
Red Top—Hulled, Solid Seed.....	8 to 10 lbs.	Timothy.....	10 to 12 lbs.
Orchard.....	25 to 30 lbs.	Vetches.....	80 lbs. or 60 lbs. with 40 lbs. Oats
Brome Grass.....	20 to 30 lbs.	Vetch, Hairy or Sand.....	30 lbs.
		Wheat.....	90 to 120 lbs.

Suitable Distance for Planting Trees and Plants

Note.—Depending on method of cultivation. In planting in the home garden for hand cultivation you can set plants or trees closer.

Apples, Standard.....	25 to 35 feet	Strawberries, in Hills.....	2 by 3 feet
Apples, Dwarf.....	10 to 12 feet	Strawberries, Matted Rows.....	2½ by 4 feet
Pears, Standard.....	20 to 25 feet	Asparagus, in Beds.....	1 by 1½ feet
Pears, Dwarf.....	10 feet	Asparagus, in Field.....	1 by 4 feet
Peaches and Apricots.....	18 to 22 feet	Rhubarb.....	3 by 6 feet
Cherries, Sweet.....	30 to 35 feet		
Cherries, Sour.....	18 to 22 feet	Logans and Cory Blackberries—	
Plums and Prunes.....	20 to 25 feet	Rows.....	6 to 9 ft. apart
Quinces.....	15 to 18 feet	Plants in the row.....	6 to 10 ft. apart
Walnuts.....	40 to 50 feet		
Currants.....	3 by 6 feet	Grapes—	
Gooseberries.....	4 by 6 feet	Rows.....	6 to 9 ft. apart
Raspberries.....	3 by 6 feet	Plants in the row.....	6 to 10 ft. apart

Number of Trees or Plants On An Acre

1 by 2 feet.....	21,780	3 by 5 feet.....	2,904	12 by 12 feet.....	302
1 by 3 feet.....	14,520	3 by 6 feet.....	2,420	15 by 15 feet.....	193
1 by 4 feet.....	10,890	4 by 4 feet.....	2,722	16 by 16 feet.....	170
1½ by 2 feet.....	14,520	4 by 6 feet.....	1,815	18 by 18 feet.....	135
1½ by 3 feet.....	9,680	6 by 8 feet.....	907	20 by 20 feet.....	109
2 by 3 feet.....	7,260	6 by 6 feet.....	1,210	25 by 25 feet.....	70
2 by 4 feet.....	5,445	8 by 8 feet.....	680	30 by 30 feet.....	48
3 by 4 feet.....	3,680	10 by 10 feet.....	430	40 by 40 feet.....	27

RULE.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet, for each plant or hill, which, divided into the number of square feet in an acre (43,560), will give the number of plants to the acre.

Our Motto
HIGHEST QUALITY



New Giant
Dahlia Flowered
Zinnia

Routledge
Seed & Floral Co.

PORTLAND, ORE.